# Aspire Learning Journeys

## Learning journeys designed to move people forward.

### Sequenced Instruction

Journeys are organized along a path that orients learners to key work functions and daily learning challenges.

### Based on a Proven Approach to Learning Design

We provide a diverse set of learning tools including videos, books, audiobooks as well as practice assessments that complement the diverse ways people learn.

### **Hands on Practice**

Without the need for any installation, Labs allow learners to prepare in a safe virtual environment and put new capabilities into practice

### **Job Readiness**

At the culmination of the journey, users must demonstrate their new-found knowledge by passing a rigorous final exam.

### **Relevant Business & Leadership Skills**

Provided optionally in every Journey, learners can go beyond the technical by learning the relevant skills necessary to communicate ideas to leadership and collaborate across teams.

# Table of Contents

PENETRATION TESTER TO SECOPS ENGINEER	2
AI APPRENTICE TO AI ARCHITECT	3
SOFTWARE TESTER TO DEVOPS AUTOMATED TESTER	4
OFTWARE PROJECT ANALYST TO SR. SOFTWARE PROJECT MANAGER	5
SOFTWARE PROJECT LEAD TO ADVANCED SCRUM MASTER	6
DEVOPS ENGINEER TO CLOUDOPS ARCHITECT	7
SECURITY ANALYST TO SECURITY ARCHITECT	8
NETWORK SECURITY SPECIALIST TO CLOUDOPS SECURITY ARCHITECT	9
PROGRAMMER TO SECURE AGILE PROGRAMMER	10
BLOCKCHAIN APPLICATION DEVELOPER TO BLOCKCHAIN SOLUTIONS ARCHITECT	11
DEVOPS ENGINEER TO CLOUDOPS ARCHITECT	12
MACHINE LEARNING PROGRAMMER TO MACHINE LEARNING ARCHITECT	13
ENTERPRISE DEVELOPER TO DEVOPS ENGINEER	14
ENTERPRISE DEVELOPER TO FULL STACK DEVELOPER	15
DATA ANALYST TO DATA SCIENTIST	16
NOVICE DEVELOPER TO PYTHONISTA	17
WEB PROGRAMMER TO APPRENTICE PROGRAMMER	18
PPRENTICE DEVELOPER TO JOURNEYMAN	19
JOURNEYMAN DEVELOPER TO MASTER-Coming Soon!	20

Wireless Pen Testing

### PENETRATION TESTER TO SECOPS ENGINEER

ا Infras	<b>COURSE PATH</b> Response Planning Measures Preemptive Troubleshooting ncident Response Policy and Governance structure Security Appliances nitor Systems Configurations Patching Strategies Regulation Conformance	FOCUS Policy and GovernancePlanning measures Patching strategies Hardware & Software inventory	<b>COURSE PATH</b> Securing the CI/CD Pipeline Hybrid and On-prem Cloud Secure Practices Infrastructure Hardening Secure Coding Practices Security Assessments Optimize Security Controls Operationalize Secure Software Deployments	<b>FOCUS</b> Automation Continuous Delivery Secured Secure Architecture
PENETRATION TESTER Testing, planning, testing, breakingINCIDENCE RESPONSE LADER Discover, contain & communicationETHICAL HACKER Rules of engagement and remediation strategiesSECOPS ENCINEER Automation, testing, CI/CD in Secure architectureNEXT JOURNEY				
COURSE PATH Advanced Pen Testing Techniques Implementation Security Controls Pen Testing Awareness Pen Testing End- user Behavior Pen Testing Foundation Physical Pen Testing	FOCUS Secure Foundations Security Awareness Implementation Measures End-user requirements Entry Point Resilience Administering local assets Monitoring people and behaviors	COURSE PATH Measuring and Assessing Risk Managing Regulatory Changes Establishing a Remediation Program System Scanning & Vulnerability Changes Communication & Incident Response	<b>FOCUS</b> Remediation processes Security Standards Account creation / Design Pr Deploy Sec Tech and Applica	

### **AI APPRENTICE TO AI ARCHITECT**

Developin	<b>COURSE PATH</b> The AI Developer Role AI Development Frameworks g AI Solutions with Microsoft Seras, Spark and Amazon ML Applying Cognitive Models AI and Robotics	FOCUS Application of Frameworks Automatic Algorithm Improv Focus on Interactive AI and H Applying Cognitive Models Semantic Information Proces Exploring robotics Building Intelligent Information	HCI AI in Other Industries Building Repeatable AI ssing Design Patterns Evaluating New	<b>FOCUS</b> Applying AI Enterprise-wide Architecting Future AI Solutions State of the Art AI Research Adapting AI to other Industries Deploying AI Tech to Enterprise Challenges Building a Repeatable AI Stack/Pipeline
Understa needs & I	Ands Data ML Theory Reeds Al	Proficiency Al Proficie d to be to apply r ned and Practices a	nt needing more Best nd Industry	CHITECT Institutional ge around ilds future ducts
COURSE PATH AI Theory HCI Principles and Methods Python AI Development Computer Vision for AI Cognitive Models	FOCUS Framework Fundamentals AI Theory & Fundamentals AI for ML and Data Scientists Fundamentals of HCI Applied AI with Python Fundamentals of Computer Cognitive Modeling Fundam	Extending Al Frameworks and APIs Vision Optimizing Al	FOCUS Constructing Training Scenar Tuning Production Al Solutio Evaluating New Al Framewor Creating APIs for Al Solutions Extension of Frameworks & A Creating Monitoring Checks Performance Tuning	ons rks s

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Building Intelligent Information Systems

Integration

### SOFTWARE TESTER TO DEVOPS AUTOMATED TESTER

### COURSE PATH FOCUS FOCUS COURSE PATH Automated Testing with SoapUI Mobile/Web/App **BDD** Automated Testing with Cucumber **API Management Program** GIT Platforms **Building a Unit Testing Program** Docker Functional Test Automating with HP UFT Tools Unit Testing Best Practices Unit Testing Software Automation with TestComplete Languages Testing for Clean Code Load Testing Automated Testing with Python Using Docker for Automated Testing **API** Testing Module-based Automated Testing Scaling Automated Testing with Kubernetes Responsive Automated Testing with Selenium Automated Testing with AWS Mastering Automation Frameworks **AUTOMATED** SOFTWARE TESTER **QA SPECIALIST QA LEAD** TESTER **NEXT JOURNEY** Completing the Focus on testing with Focus on CI/CD and Focus on bug an Agile-mindset journey to testing tools identification and Automated Testing issue reporting COURSE PATH FOCUS FOCUS Software Testing for Foundation Skills COURSE PATH **DevOps** Software Lifecyle Manual vs Automated Agile Navigating Software Software Automation Static Testing Testing **Testing Tools Test Techniques** Agile Software Testing Cycle **Continuous Delivery** Exploring Test Test Management Test Driven Development Frameworks Automation **Tools introduction** End to End Testing **Functional Testing** Exploring Modifying Test Frameworks Continuous

### SOFTWARE PROJECT ANALYST TO SR. SOFTWARE PROJECT MANAGER

### **Recruiting for Software Projects** Human resources Succeeding with Advance Agile Advanced Agile FOCUS COURSE PATH Advanced SCRUM Strategy **Product Management** Advance Project Data Analysis **Defining Success Metrics** Metrics Negotiation Skills for Project Analysts Organizational Value Management Negotiation **Business Analysis** Interpreting Stakeholder Needs Supporting Organizational Approaches **Business Analysis for Project Management** Deployment Strategic Goals Hybrid Agile Approach Project Risk Assessment Stakeholder Needs Risk Agile Value-driven Delivery **SOFTWARE SENIOR** SOFTWARE SOFTWARE PROJECT **SOFTWARE PROJECT ANALYST PROJECT LEAD** MANAGER **PROJECT MANAGER NEXT JOURNEY** Traditional software Leading software Implement various Agile Managing projects development teams planning and and software project methodologies development analysis FOCUS COURSE PATH FOCUS

COURSE PATH Lean, Agile, and Scrum for Software Development Understanding Project Management Tools Project Management **Collaboration Tools** +3 More

Foundation Collaboration Requirements Methods Tools Terminolog

Agile Project Management Scrum Project Management **Decision Making for Software Project Managers** Project Data Analysis **Conducting Software Project Meetings** Stakeholder Communication **Balancing Project Needs vs Expectations** Advanced Agile

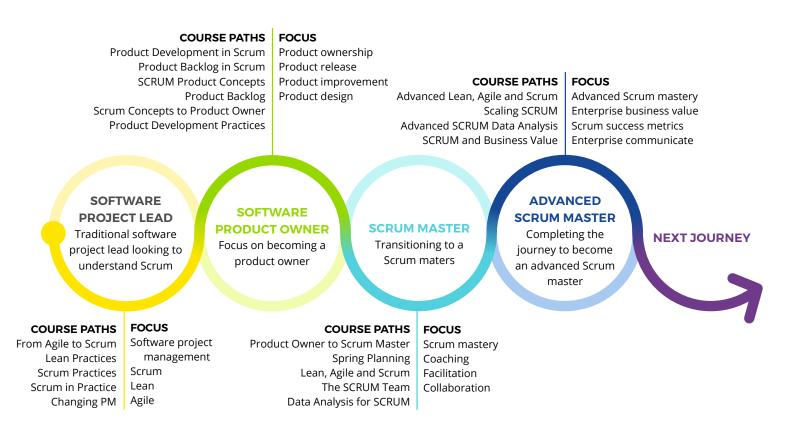
### Agile

Analysis Needs Communication SCRUM and Decision Making

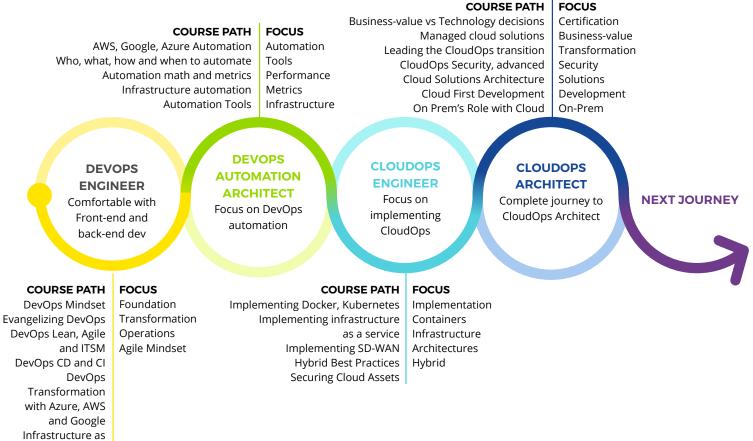
### COURSE PATH FOCUS

Value Management and Hybrid

### SOFTWARE PROJECT LEAD TO ADVANCED SCRUM MASTER



### **DEVOPS ENGINEER TO CLOUDOPS ARCHITECT**



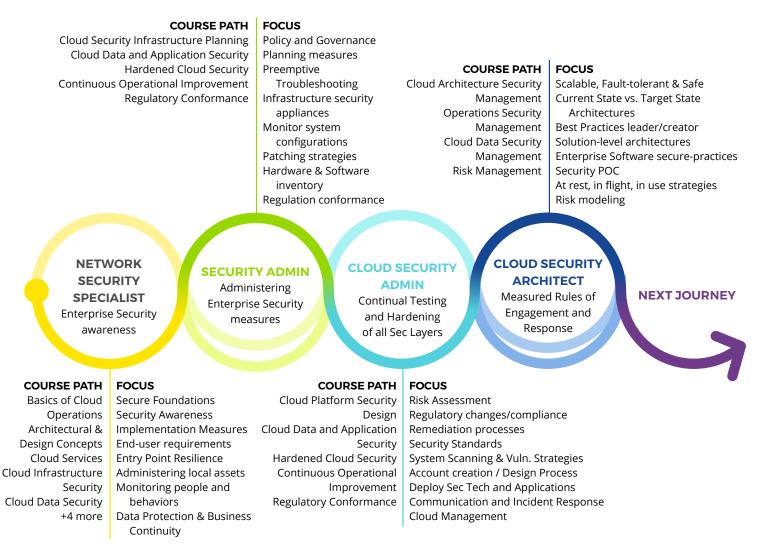
Code

Honeypots Pen Testing

### SECURITY ANALYST TO SECURITY ARCHITECT

Sec	COURSE PATH nd-User Security Awareness Anomaly Detection Digital Forensics Digital Ethics & Privacy Risk Analysis curity Software Assessments Security Audits g Started with Cryptography	Implementation	<b>COURSE PATH</b> Rules of Engagement thical Hacking Best Practices Intelligent Security Orchestration ecurity Regulatory Mandates Breach Notification Process Security Triage Automated Unified Security Playbook	FOCUS Systems security modeling Governance policies Securing infrastructure Self-healing systems Post-attack Review
SECU ANA Plannin Implementi Meas	ng and ng Security	collection collection and Ha	ABILITY LYST al Testing rdening c Layers ABILITY SECU ARCH Governan infrastructu self-he	ITECT ce, secure ure design,
COURSE PATH	FOCUS	COURSE PATH	FOCUS	
Cybersecurity 101	APT Defenses	Vulnerability Management	Penetration/Vulnerability Te	sting
Cybersecurity: An	NACs & Gateways	Best Practices	Intrusion Detection	
Executives Guide	0	Authentication & Encryption	Intrusion Prevention	
Getting Started	protocols	Solutions	Secure Coding PracticesTrac	king
with Information	Hardened Security	Secure Coding	Incidents	viec
Security	Topologies Continual Infrastructure	+5 more	Developing Security Topolog Security Architectures	sies
	Testing Security Governance		Security Architectures	

### NETWORK SECURITY SPECIALIST TO CLOUDOPS SECURITY ARCHITECT



### PROGRAMMER TO SECURE AGILE PROGRAMMER

COURSE PATH Secure Programming Concepts Secure Programming Vulnerabilities Secure Programming Encryption Secure Programming Attacks Secure Programming Resiliency Coding

### FOCUS

Vulnerabilities and Resiliency Trusting internal data validity Trusting software Components Intelligent source reuse **Encryption techniques** Assertive Programming Intelligible Exceptions Preconditions, postconditions & invariants

### COURSE PATH

Secure Agile Concepts Secure Agile Techniques Secure Agile Modeling Secure Agile Testing

### FOCUS

**Continual Security Testing** Creating a secure Agile SDLC **Building secure User Stories** Best Practices for Secure SD **Continuous Integration Techniques** Static Code Analysis **Organizational Security Culture** Secure Methods for Scrum Agile Modeling and Agile Testing

PROGRAMMER Programming in the large, and Security intention

### SECURE PROGRAMMER Anticipating the unexpected in your code and systems.

DEFENSIVE PROGRAMMER

**Continual Testing** and Hardening of all Sec Layers

### **AGILE SECURE** PROGRAMMER Measured Rules of

Engagement and Response

### **NEXT JOURNEY**

### COURSE PATH

Programming Standards Software Design Techniques Software Modeling Techniques **Coding Practices** Software Testing

### FOCUS

Secure Foundation Skills High availability code Predictable practices Clean code Pragmatic principles Bug tracking and reduction **Testing and Unit Testing** 

COURSE PATH

Defensive Concepts Defensive Techniques Cryptography Advanced Concepts Secure Testing

### FOCUS

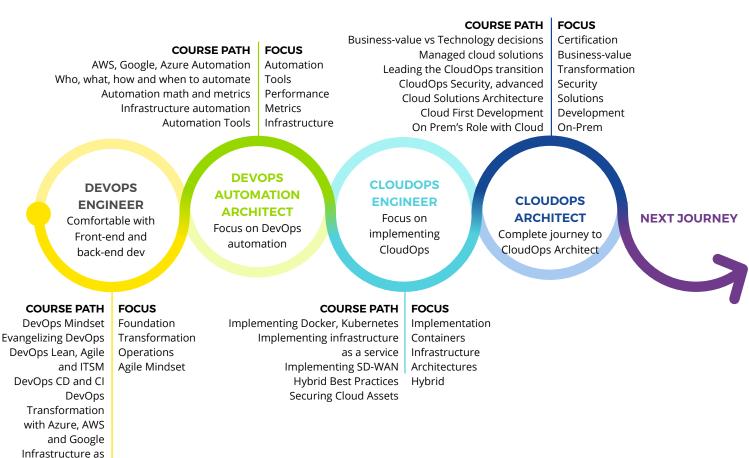
**Encryption Algorithms** Buffer overflow **Common Programming Errors** Format String attack prevention Secure Software Techniques Integer Overflows Numeric Errors Input Validation Frameworks Cryptography and Testing

### **BLOCKCHAIN APPLICATION DEVELOPER TO BLOCKCHAIN SOLUTIONS ARCHITECT**

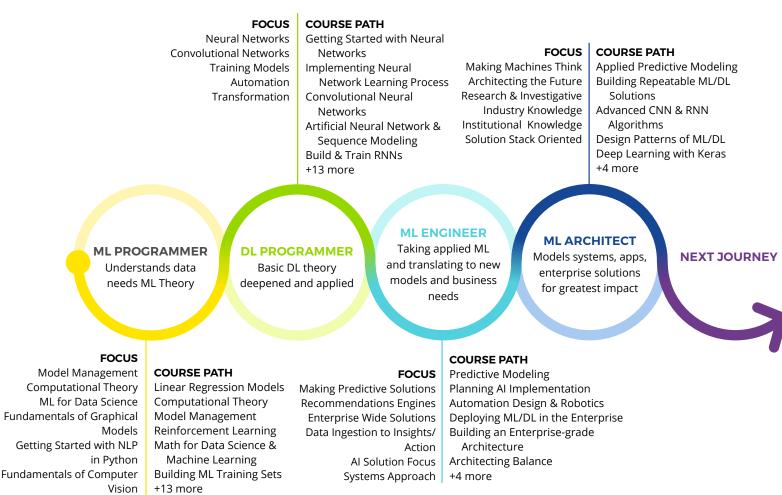
	FOCUS Solidity Functions Ether transfer operations Data structures Control structures Hyperledger fabric network Hyperledger composer networks	COURSE PATH Ethereum Smart Contracts with Solidity Data & Control Structures in Solidity Build Decentralized Apps Smart Contracts & Hyperledger Fabric Hyperledger Fabric Hyperledger Fabric Working with Fabric Chaincode in NodeJS Web Apps for Hyperledger Composer Networks + 8 more	FOCUS Back-end development Front-end development Bespoke Ethereum tokens Cloud development Single organization networks Multi-organization networks Amazon manager blockchain Azure blockchain workbench	COURSE PATH Building the Back End for a Decentralized Application Defining Bespoke Ethereum Tokens Single Organization Networks on Amazon Managed Blockchain Building Apps on the Azure Blockchain Workbench + 4 more
BLOCKCHAIN APPLICATION DEVELOPER Performing transactions and smart contract comprehensionSMART CONTRACT PROCRAMMER Biokchain IDE mastery and smart contract developmentBLOCKCHAIN ENGINEER Building Blockchain apps and working with the Hyperledger fabricBLOCKCHAIN SOLUTIONS ARCHITECTBLOC				
FOCUS Ethereum Performing transactions Mining Smart contracts Storing data Metamask Geth client Lifecycle development	COURSE PATH Blockchains & Ethereum Working with Ethereum Metamask & the Ethereum Wallet The Geth Client Tools for Smart Contract Development + 4 more	FOCUS Blockbuilding private networks Automated development Build decentralized apps Hyperledger fabric development Truffle suite development Truffle framework	COURSE PATH Truffle Suite: Automating Development with the Tru Framework Truffle Suite: Using Drizzle t Decentralized Apps Blockchain & Hyperledger F + 4 more	to Build

Code

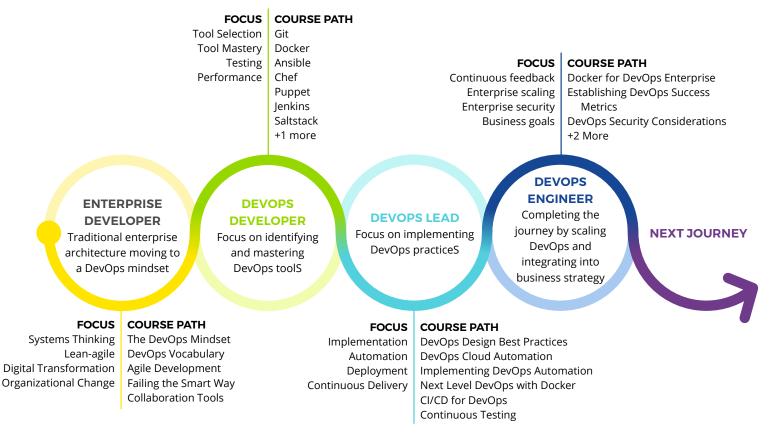
### **DEVOPS ENGINEER TO CLOUDOPS ARCHITECT**



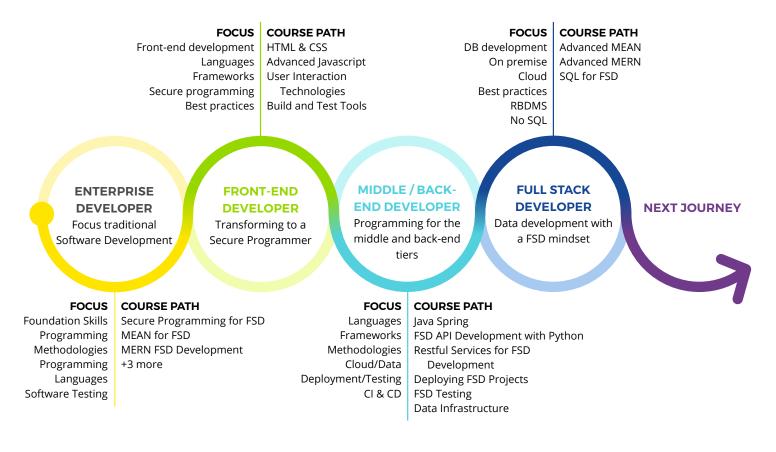
### MACHINE LEARNING PROGRAMMER TO MACHINE LEARNING ARCHITECT

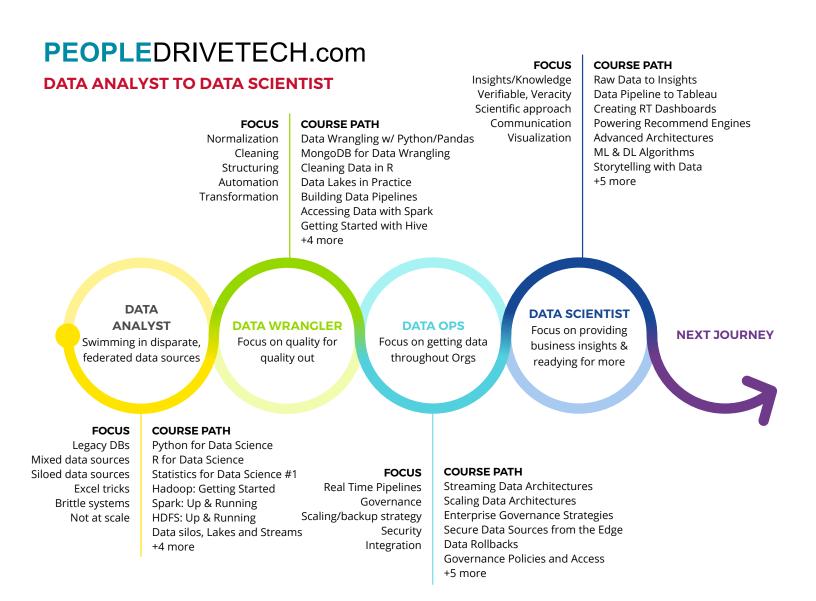


### **ENTERPRISE DEVELOPER TO DEVOPS ENGINEER**

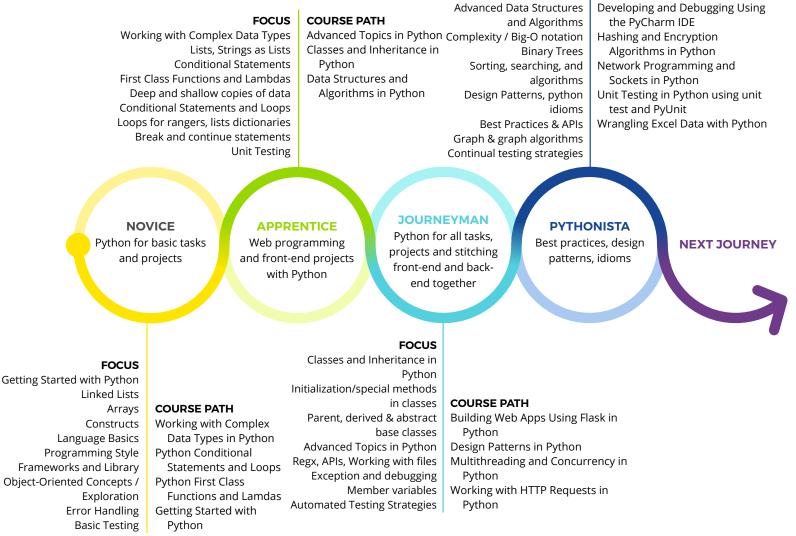


### ENTERPRISE DEVELOPER TO FULL STACK DEVELOPER





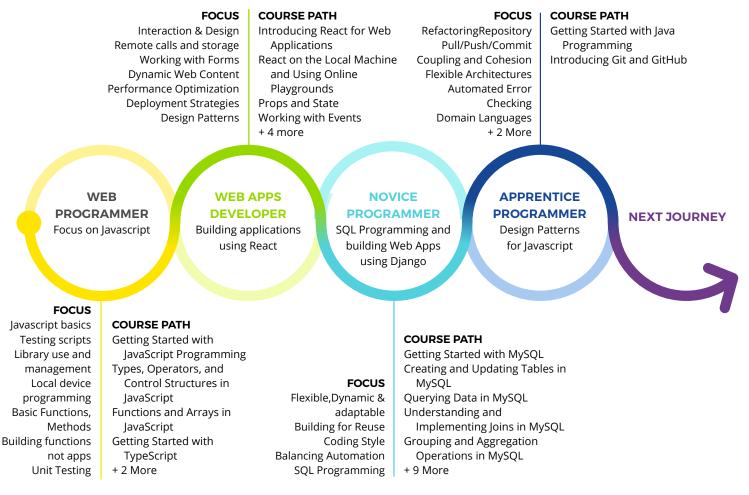
### **NOVICE DEVELOPER TO PYTHONISTA**



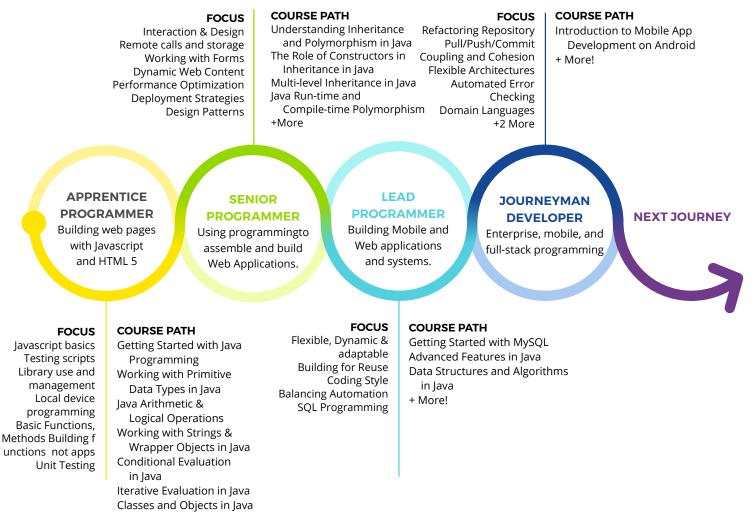
FOCUS

COURSE PATH

### WEB PROGRAMMER TO APPRENTICE PROGRAMMER



### APPRENTICE DEVELOPER TO JOURNEYMAN



### **JOURNEYMAN DEVELOPER TO MASTER - Course Paths COMING SOON!**

### FOCUS

Automated Testing Using MEAN Building your Stack Storage Strategies Solution Design Approach Integration Tactics Systems Thinking

### FOCUS

API Design Architectural Patterns Microservices/Serverless Arch Pattern Language Mapping Code Inspection Practices Scrum master techniques Agility Focus

JOURNEYMAN Ability to program in any domain; master of most tools, frameworks, & Methods

### FULL-STACK

Focus on front-end and back-end Development at scale.

### **APP ARCHITECT**

Focus on software complete structures and systems

### MASTER

Ability to program in any domain; master of all tools, frameworks, & Methods

### ASTER

**NEXT JOURNEY** 

### FOCUS

Evolutionary Architecture Domain-Driven Design Test-Driven Development Adv. Clean Coding Practices Craftsmanship Style Collaboration focus Pragmatic Programming View

### FOCUS

Project Management API Reuse Architecture Considerations API Design Secure Coding Practices Design Thinking Performance and Scaling



Authorized Partner