

COURSES BY CAREER PATH

Career Path	Relevant Courses
Web Developer	Web Development Fundamentals, HTML, CSS, JavaScript, React.js, Node.js, Front-end Frameworks (e.g., Angular, Vue.js), Back-end Development (e.g., Express.js, Django, Ruby on Rails), Web Accessibility
Mobile App Developer	Mobile App Development, Java or Swift Programming, Android App Development, iOS App Development, Cross-Platform App Development (e.g., Flutter, React Native), Mobile UI/UX Design, Mobile App Testing
Data Scientist	Data Science and Analytics, Python Programming, Machine Learning, Data Visualization, Statistics, Deep Learning, Natural Language Processing (NLP), Time Series Analysis, Data Engineering
Network Administrator	Networking Basics, Cisco Certified Network Associate (CCNA), Network Security, Routing and Switching, Network Troubleshooting, Wireless Networking, Network Monitoring
Cybersecurity Analyst	Cybersecurity Fundamentals, Network Security, Ethical Hacking, Penetration Testing, Incident Response, Security Operations Center (SOC), Digital Forensics, Threat Hunting
Software Engineer	Python Programming, Java, C++, Software Development Methodologies (Agile, Scrum), Version Control (e.g., Git), Software Testing, Software Architecture and Design Patterns, Continuous Integration/Continuous Deployment (CI/CD)

UX/UI Designer	Graphic Design, User Experience Design, Prototyping Tools (e.g., Adobe XD, Sketch), Human-Computer Interaction (HCI), Usability Testing, Interaction Design, Design Thinking
Database Administrator	Database Management, SQL, Database Design, Data Warehousing, Database Security, NoSQL Databases (e.g., MongoDB, Cassandra), Database Performance Tuning
IT Project Manager	IT Project Management, Leadership Skills, Project Planning and Execution, Risk Management, Agile Project Management, Stakeholder Management, Change Management
Cloud Solutions Architect	Cloud Computing and Virtualization, AWS or Azure Certifications, Cloud Security, Cloud Architecture and Design, Hybrid Cloud Solutions, Cloud Migration Strategies
Digital Marketing Specialist	Digital Marketing, Social Media Management, Search Engine Optimization (SEO), Google Analytics, Content Marketing, Email Marketing, Marketing Analytics
IoT Specialist	Internet of Things (IoT), Sensor Networks, Embedded Systems, IoT Security, IoT Protocols (e.g., MQTT, CoAP), Edge Computing, IoT Data Analytics
Video Game Developer	Game Development, Unity or Unreal Engine, Game Design, Game Physics, Game AI, Game Monetization Strategies, Virtual Reality (VR) Game Development

Blockchain Developer	Blockchain Technology, Smart Contracts, Ethereum Development, Solidity, Decentralized Applications (DApps), Cryptocurrencies, Hyperledger Fabric
Cloud Security Specialist	Cloud Security, Network Security, Identity and Access Management (IAM), Security Compliance, Security Assessment and Auditing, Secure Software Development, Cloud Penetration Testing
Big Data Analyst	Big Data Analytics, Data Engineering, Hadoop, Spark, NoSQL Databases, Data Mining, Data Wrangling, Big Data Visualization
Quantum Computing Specialist	Quantum Computing, Quantum Algorithms, Quantum Information Theory, Quantum Software Development, Quantum Cryptography, Quantum Error Correction
AI Ethics Specialist	Artificial Intelligence Ethics and Policy, AI Regulation, Fairness and Bias in AI, Responsible AI Development, Ethical Decision-Making in AI, AI Governance
Cybersecurity Researcher	Advanced Cybersecurity Concepts, Threat Intelligence, Malware Analysis, Reverse Engineering, Security Research and Publications, Cybersecurity Research Projects, Cybersecurity Ethics
Robotics Engineer	Robotics and Automation, Robot Kinematics and Dynamics, ROS (Robot Operating System), Control Systems, Computer Vision, Robot Motion Planning, Human-Robot Interaction
UI/UX Researcher	Human-Computer Interaction Research, Usability Testing Methods, UX Design Evaluation, User Research Techniques, UX Data Analysis, UX Research in Agile

Cloud DevOps Engineer

DevOps Principles, Continuous Integration/Continuous Deployment (CI/CD), Infrastructure as Code (IaC), Containerization (Docker, Kubernetes), Cloud Automation, DevSecOps

Embedded Systems Developer

Embedded C/C++ Programming, Microcontrollers (Arduino, Raspberry Pi), Real-Time Operating Systems (RTOS), Firmware Development, Embedded Systems Testing, IoT Device Programming

Business Intelligence Analyst

Business Intelligence Tools (e.g., Power BI, Tableau), Data Visualization, Data Modeling, Business Analytics, Business Intelligence Strategy, Predictive Analytics