



# Become a DevOps Engineer with the Virginia Tech Bootcamps

Study development operations with the Virginia Tech DevOps Bootcamp, powered by Fullstack Academy.

- ◆ Add in-demand DevOps engineering skills to your resume
- ◆ Create a varied portfolio of projects to demonstrate your experience
- ◆ Get job search support throughout the course and beyond to help you get hired

Explore the curriculum and see what you could learn with us.

## Foundations

Linux	Networking	AWS	Python	DevOps
<ul style="list-style-type: none"> <li>◆ Introduction to Linux Systems Architecture</li> <li>◆ Core System Commands</li> <li>◆ Systems Administration</li> <li>◆ Shell Scripting Basics</li> <li>◆ Distributions and Building from Source</li> <li>◆ Security Hardening</li> </ul>	<ul style="list-style-type: none"> <li>◆ Device and OSI Concepts</li> <li>◆ Routing and Switching</li> <li>◆ Ports and Protocols</li> <li>◆ Enterprise Firewalls</li> <li>◆ Proxies and Payload Inspection</li> <li>◆ Troubleshooting Connectivity Issues</li> </ul>	<ul style="list-style-type: none"> <li>◆ Cloud Models and Shared Responsibilities Overview</li> <li>◆ AWS Well-Architected Framework and Pillars</li> <li>◆ VPCs: Native and Hybrid Network Connectivity</li> <li>◆ Identity Access Management and Permissions</li> <li>◆ Migration Practices and Architectures</li> <li>◆ AWS Operational Security Best Practices</li> </ul>	<ul style="list-style-type: none"> <li>◆ Python Overview and Common Use Cases</li> <li>◆ Use builtin functions and libraries</li> <li>◆ Data Types and Structures</li> <li>◆ Standard Data Input and Output</li> <li>◆ Use Decision Controls</li> <li>◆ Create Modularity with Functions</li> </ul>	<ul style="list-style-type: none"> <li>◆ Software Development Lifecycles (SDLC)</li> <li>◆ Translate and Port Code</li> <li>◆ Standardizing Data for Producers and Consumers</li> <li>◆ Source Code Operations</li> <li>◆ Secure Coding Practices</li> <li>◆ Secure CI/CD</li> </ul>

Cloud Architecture	Cloud Development	Cloud Operations
<ul style="list-style-type: none"> <li>◆ Designing for High Availability</li> <li>◆ Automating your Infrastructure</li> <li>◆ Designing Web-Scale Media</li> </ul>	<ul style="list-style-type: none"> <li>◆ Developing Storage Solutions with Amazon S3</li> <li>◆ Developing NoSQL Solutions with Amazon Dynamo DB</li> <li>◆ Caching Information for Scalability</li> </ul>	<ul style="list-style-type: none"> <li>◆ Tooling and Automations</li> <li>◆ Computing (Servers)</li> <li>◆ Monitoring and Security</li> </ul>
<h3>Career Prep</h3>		<ul style="list-style-type: none"> <li>◆ Build a Capstone Project to share with employers</li> <li>◆ Build a technical resume and craft cover letters</li> <li>◆ Optimize your LinkedIn profile and network within the industry</li> <li>◆ Receive personalized 1-1 coaching with interview and negotiation training</li> </ul>

Please note that this is a sample curriculum and is subject to change.