



# 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>
<b>Career Prep</b>		<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.