

# Timothy Vu

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## EDUCATION

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<b>Cornell University</b> <i>Master of Engineering in Computer Science</i>	Ithaca, NY <i>Expected December 2024</i>
<b>Cornell University</b> <i>Bachelor of Science in Computer Science</i>	Ithaca, NY <i>May 2024</i>

## EXPERIENCE

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<b>Microsoft</b> <i>Site Reliability Engineer Intern</i>	May 2023 – July 2023 Reston, VA
<ul style="list-style-type: none"><li>Automated renewal and rotation for 90+ certificates in Azure Key Vault, eliminating manual intervention</li><li>Transitioned certificates from thumbprint-based authentication to more secure subject name and issuer method</li><li>Implemented an efficient auto distribution system for certificates, enhancing scalability and availability by automatically deploying them to 10,000 Azure service nodes</li></ul>	
<b>Microsoft</b> <i>Site Reliability Engineer Intern</i>	May 2022 – August 2022 Reston, VA
<ul style="list-style-type: none"><li>Created a real-time centralized metrics dashboard tracking latency, availability, and utilization of government cloud deployment tool, enabling data driven decision making</li><li>Replaced manual log checks with automated email notifications, reducing incident resolution time by 50%</li><li>Presented actionable insights on key performance indicators based on dashboard data to senior management</li></ul>	
<b>U.S. Department of Defense</b> <i>Software Engineer Intern</i>	June 2021 – August 2021 Springfield, VA
<ul style="list-style-type: none"><li>Upgraded department SharePoint page to enhance appearance and functionality using JavaScript for 100+ personnel while serving as principal SharePoint administrator</li><li>Improved access request workflow for SharePoint permissions, reducing waiting time and manual approvals</li></ul>	
<b>Modus Create Inc</b> <i>Software Engineer Intern</i>	May 2020 – August 2020 Reston, VA
<ul style="list-style-type: none"><li>Developed Amazon Web Services tool automating temporary third-party remote access to internal VMs</li><li>Built a demo website to showcase Vue 3 and Ionic 5 for presentation to potential Fortune 500 clients</li><li>Authored technical tutorials on topics such as AWS, Vue, and JavaScript for company blog and Medium</li></ul>	

## MILITARY EXPERIENCE

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<b>U.S. Army Reserve Cyber Protection Brigade</b> <i>Cyber Warfare Officer (17A)</i>	May 2024 - Present Adelphi, MD
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## PROJECTS

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<b><u>AWS Instant Tunnel</u></b>   <i>JavaScript, Python, Lambda, DynamoDB</i>
<ul style="list-style-type: none"><li>Developed an AWS tool automating temporary SSH access to EC2 instances</li><li>Wrote AWS Lambda functions for user authentication, EC2 instance management, and database operations</li><li>Used DynamoDB to store temporary permission information</li></ul>
<b><u>Tutor</u></b>   <i>HTML/CSS, Node.js, Express.js, MongoDB</i>
<ul style="list-style-type: none"><li>Built a tutoring networking site which matches students and tutors based on expertise</li><li>Utilizes MongoDB to store user data and Express.js/Node.js backend</li><li>Employs Bootstrap CSS and Handlebars for dynamic rendering</li></ul>

## SKILLS

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**Languages:** Java, Python, C, C#, SQL, JavaScript, HTML/CSS  
**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse  
**Certifications:** AWS Certified Developer Associate, AWS Certified Solutions Architect Associate, Microsoft Azure Fundamentals, CompTIA Security+, CompTIA Network+