

# Ethan Nguyen

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## WORK EXPERIENCE

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### Capital One – Card Technology

Mclean, VA

Software Engineer

Aug 2023 – Present

- Built a distributed orchestration system to decide **2+ million credit card applications per month** using Go & AWS (DynamoDB, Step Function, Lambda, Fargate, EC2).
- Built a new credit card application workflow to **save ~\$1-1.5M per year in credit card bureau data cost** and limit income gaming.
- Successfully led the migration of three high-transaction Java and Spring Boot microservices and Vue and Angular front-ends, averaging **2 million transactions per month**, from AWS ECS EC2 to Fargate. **Annual savings of \$20,000.**
- Organized monthly SWE and MLE workshops for over 2,000 engineers.

### Capital One – Enterprise, Data, Machine Learning

Mclean, VA

Software Engineer Intern

May 2022 – Aug 2022

- Designed and implemented Capital One **Python SDK framework** for AWS API Gateway, Lambda, SQS, and DynamoDB to decrease API development time.
- Configured CI/CD pipelines using Jenkins and AWS CloudFormation to automatically test and deploy REST APIs within 30 minutes.

### Biomedical Data Representation and Learning Lab

Research Assistant

Aug 2020 – May 2023

- **Researched novel machine learning algorithms** for biomedical image analysis resulting in **2 first-author publications.**
- Trained >500 models across >20 deep learning algorithms using Python, PyTorch, Linux, and Docker.

## PROGRAMMING LANGUAGES & FRAMEWORKS

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**Languages:** Python, Golang, Java, C/C++, LISP

**Technologies:** Amazon Web Services, Docker, Kubernetes, React, Vue, Angular, Linux, Splunk, NewRelic, Agile, CI/CD, Git

**Certifications:** Amazon Web Services Solutions Architect - Associate

## EDUCATION

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### Georgia Institute of Technology, College of Engineering

Atlanta, GA

Master of Science, Computer Science (Remote Part-Time)

2024 - 2026

Relevant Coursework: Machine Learning, Deep Learning, Distributed Systems

GPA: 4.00/4.00

### Vanderbilt University, College of Engineering

Nashville, TN

Bachelor of Science, Computer Science, Summa Cum Laude

2019 - 2023

Relevant Coursework: Software Engineering, Algorithms, Data Structures

GPA: 3.98/4.00

Lera Stevens Scholarship (Full-tuition scholarship to Vanderbilt University - \$280,000)