

Ethan Nguyen

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WORK EXPERIENCE

Capital One

Mclean, VA

Software Engineer, Machine Learning Training Platform

Aug 2023 – Present

- Developed a machine learning training platform that offers a Jupyter Notebook-like experience for **7500+ internal users** using AWS, Kubernetes, Argo CD, Argo Workflows, and Go.
- Built a distributed orchestration system to decide **2+ million credit card applications per month** using Go & AWS (DynamoDB, Step Function, Lambda, Fargate, EC2). Conducted performance analysis and optimization of the system to save **~120ms per application**.
- 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

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

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

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

Certifications: Amazon Web Services Solutions Architect - Associate

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science, Computer Science

Relevant Coursework: Machine Learning, Deep Learning, Distributed Systems

GPA: 4.00/4.00

Vanderbilt University

Nashville, TN

Bachelor of Science, Computer Science, Summa Cum Laude

Relevant Coursework: Software Engineering, Algorithms, Data Structures

GPA: 3.98/4.00

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