Ethan Nguyen

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WORK EXPERIENCE

Capital One

Software Engineer

- Developing a machine learning training platform that offers a Jupyter Notebook-like experience for 7500+ internal users using AWS, Kubernetes, Argo, and Go.
- Built a distributed orchestration system to decide 2+ million credit applications per month. Built test framework, automating a manual process and saving 1-2k hours per year. Conducted performance analysis and optimization of the system to save ~120ms per application.
- Successfully led the migration of three business critical Java microservices, averaging 2 million transactions per month, from AWS EC2 to Fargate. Annual operational savings of $50,000.
- Organized monthly SWE and MLE workshops for over 2,000 engineers.

Capital One

Software Engineer Intern

- 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

- Researched novel machine learning algorithms for biomedical image analysis resulting in 2 first-author publications. Written in PyTorch.

PROGRAMMING LANGUAGES & FRAMEWORKS

Languages: Go, Python, Java, C/C++
Technologies: Amazon Web Services, Docker, Kubernetes, Argo, React, Bash/Shell, Splunk, NewRelic, Agile, Jenkins CI/CD, Git
Certifications: Amazon Web Services Solutions Architect - Associate

EDUCATION

Georgia Institute of Technology   (Online) Atlanta, GA

Master of Science, Computer Science (In Progress)
Relevant Coursework: Advanced Operating Systems, Human Computer Interaction   GPA: 4.00/4.00

Vanderbilt University   Nashville, TN

Bachelor of Science, Computer Science, Summa Cum Laude
Relevant Coursework: Distributed Systems, Deep Learning, Machine Learning   GPA: 3.98/4.00
Full-tuition scholarship to Vanderbilt University - $280,000, Goldwater Scholarship - $7,500