SAMUEL LEE

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EXPERIENCE

AMAZON WEB SERVICES — New York, NY
Software Development Engineer II — Apr 2024 - Present
- Saving a projected $300,000 annually by productionizing a new fraud mitigation service for Amazon Connect.
- Reduced user authn/authz latency by 33%, eliminated a projected 150 minutes of annual service downtime, and enabled expansion of Amazon Connect to new regions by designing, implementing, and leading a 3-month migration of hundreds of thousands of daily active users to a new, highly scalable session token microservice.

Software Development Engineer — Jul 2022 – Apr 2024
- Enabled enterprise customers to onboard to Amazon Connect Global Resiliency by implementing the first SAML-2.0 sign-in endpoint in AWS Apps outside of AWS Sign-in Service and leading the design of a new load test workflow across 3 teams.
- Reduced feature launch times from 6 weeks to under 4 weeks by optimizing critical deployment pipelines.
- Led a summer intern in developing a fraud mitigation automation, providing technical guidance and facilitating cross-team collaboration, resulting in a full-time hire and successful delivery of a proof-of-concept which is being productionized.
- Supported launch of 4 new features as the team's dedicated Security Guardian by iterating on architecture designs and threat models with feature owning teams.
  Skills Used: Java, TypeScript, NodeJS, Mockito, Cypress, Linux, AWS (Elastic Container Service, Elastic Load Balancing, Lambda, DynamoDB, Route53, CloudWatch, IAM)

LMI TECHNOLOGIES — Boston, MA
AI R&D Engineer (Part Time) — July 2020 – June 2022
- Achieved up to a 2x throughput and 1.2x accuracy increase in model performance by optimizing application workflow.
- Streamlined and supported application development by implementing a new declarative model training workflow.
- Generated customer engagement by presenting R&D and feasibility reports.
  Skills Used: Python, TensorFlow, PyTorch, OpenCV

INTUIT — Mountain View, CA
Software Engineering Intern — Summer 2021
- Addressed a common user pain point by implementing a feature in QuickBooks Online to decouple users' tax agency settings from their overall account settings, involving changes both in backend logic and UI functionality.
  Skills Used: Java, TypeScript, React, GraphQL, Jest, Mockito

EDUCATION

VANDERBILT UNIVERSITY
Bachelor of Musical Arts • 2022 • Majors: Computer Science, Math, French Horn Performance

PROJECTS

WITNESS - https://apply.vandyhacks.org — Fall 2021
- Event management platform for VandyHacks – Vanderbilt University's student-run hackathon organization – enabling team management and project scoring, still in active use and development today.
- Designed and led implementation of the project as the Tech Lead for VandyHacks's development team from 2021-2022, co-managing a team of 9 student developers.
  Skills Used: TypeScript, React, MongoDB, Next.JS

VANDYHACKS WEBSITE - https://vii.vandyhacks.org — Fall 2020
- Promotional website for VandyHacks's 7th annual hackathon, viewed by over 1100 applicants worldwide.
  Skills Used: TypeScript, React

YNAB-VENMO — January 2022
- Service that automatically imports transactions made in Venmo to YNAB (budgeting tool) by listening for emails from Venmo. Created as a solution to a pain point that has since been addressed (Venmo integration now officially supported).
  Skills Used: TypeScript, Redis, AWS EC2