

Michelle Tham

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WORK EXPERIENCE

Capital One

McLean, VA

Senior Associate Software Engineer, Retail Bank Technology

August 2023 – Present

- Maintained 5+ high-availability applications serving 6,000+ domestic wires, 2,000+ international wires, and 1,000+ cashier's checks weekly.
- Secured highly sensitive human data on 5+ applications on wires, cashier's checks, and debit authentication in both consumer and associate-facing web portals.
- Migrated domestic and international wires backend APIs to satisfy ISO 20022 bank regulations for standardization and interoperability.

Associate Software Engineer, Enterprise Consumer Platforms

August 2022 – August 2023

- Developed and maintained 25+ high-availability applications serving 150,000,000+ consumer messages daily.
- Condensed 4 existing stream consumers into a single application to eliminate redundancy, optimize day-to-day operations, simplify existing infrastructure by 66%, and improve costs by \$6,000/year.
- Maintained 15+ containerized APIs in AWS which external and internal customers consume.
- Owned applications from development to release with production support as a Site Reliability Engineer.

Software Engineer Intern, Retail Bank Technology

June 2021 – August 2021

- Advanced transaction service by updating the latest account data from a Kafka stream into MySQL database, releasing into production with ~80,000 events consumed and ~140 events updated weekly.
- Assessed and appended additional unit and integration testing to pass 80% code coverage as part of CI/CD pipeline requirements.

American Express

Remote – New York, NY

Software Engineer Intern, Digital Workplace

July 2020 – August 2020

- Assembled a Slack integration to retrieve application details from American Express's internal application hub.
- Released integration to production for internal users company-wide to ease gathering data, increase productivity, and shorten time navigating in and out of Slack.

Bank of America

New York, NY

Technology Analyst Intern, Global Information Security

June 2019 – August 2019

- Designed and managed a CLUE-inspired web application to enhance employee engagement in the cybersecurity onboarding experience.
- Served as a Product Owner through the Agile framework by creating scrum artifacts and organizing backlogs and user stories in Jira.

PROJECTS

Sprout

August 2021 – December 2021

- Architected and developed a trivia-based web application where users can test their knowledge, challenge their friends, create their own platform and quizzes, and unlock achievements based on their scores.
- Used React JS, Node JS, Express JS, MySQL, Material-UI, Sequelize, and Heroku.

EDUCATION

Stony Brook University; GPA 3.61/4.00

Stony Brook, NY

Bachelor of Science in Computer Science, Women in Science & Engineering Honors

Graduated May 2022

ADDITIONAL INFORMATION

Programming Languages: Java, Angular, and Python

Frameworks/Tools: Spring, Cucumber, Jenkins, Apache Kafka, AWS, Jira, Postman, GitHub, Git, Agile and Scrum

Certifications: AWS Certified Solutions Architect – Associate (January 2023)

Awards: Grace Hopper Celebration Scholar (2020)

Organizations: Girls Who Code, Women Rewriting the Code, and Women in Science & Engineering