Nicole Avila

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SKILLS

Technical Tools: Jenkins, DataDog, AWS, Hadoop, SonarQube, Grafana, Jupyter Notebook, Figma, Unix/Linux
Languages/Frameworks: Python, Java, HTML/CSS, Javascript, C#, Angular, React, Kotlin, SQL, GraphQL
Certificates: AWS Cloud Practitioner, CodePath Android 101, CodePath Leadership, Google Software Product Sprint

WORK EXPERIENCE

Fidelity Investments   January 2024 - Present
Software Engineer
- Developed and deployed reliable Angular/TypeScript components via Jenkins, delivering user-focused features.
- Recognized with the 'Taking Risks and Values Pace' award for taking ownership of and resolving a critical UI performance issue, which prevented potential user data loss.
- Provided in-depth analysis and documentation to address Angular Material end-of-life issues and proactively offered UI/UX feedback during the upgrade.
- Led the remediation of a major security vulnerability by architecting a scalable shared library, refactoring over 1,000 lines of legacy code, and repairing 250+ unit tests to secure the frontend application.
- Drove the initiative to define and implement a unified logging pattern across front-end and back-end systems, resulting in a 20% reduction in Datadog costs and improved system performance.
- Led, designed, and presented architecture designs to DevOps and architects, proposing scalable logging strategies.
- Developed a dynamic search feature using Java, Spring, and SQL, improving data retrieval and user experience.
- Recognized with the "Coaches Others" award for mentoring college students through technical debugging and presentation coaching at the Fidelity Hackathon.

Center For Medicare and Medicaid Services   June 2023 - August 2023
Coding it Forward Fellow / Software Engineer Intern
- Developed a dashboard updating open-source projects across CMS.gov, utilizing React and TypeScript for the frontend and Python and GraphQL for backend data processing.
- Presented and implemented a solution for external stakeholders that reduced manual effort by 95%.

LinkedIn   June 2022 - September 2022
Software Engineer Intern
- Computed statistical metrics through the data pipeline using Scala and Spark, storing data in Hadoop.
- Created an API service to capture over 350k engagement and demographics metrics data from Hadoop and sent it to the frontend using Python and SQL queries.

LEADERSHIP & MENTORSHIP

Fidelity UI Guild   July 2024 - Present
- Led a session walking through Angular 15 and Angular 18 upgrades and shared documentation via confluence.
- Defined in collaboration with others a migration strategy for monolithic architecture to micro frontends.

Teaching Fellow for Codepath Technical Interview Prep 102 & 103   May 2024 - August 2024
- Managed and led 4 groups of 5 students to prepare for technical interviews.

Teaching Assistant For Usable Security and Privacy   April 2023 - June 2023
- Held weekly office hours, graded undergrad and graduate level assignments, and managed team research projects.

PROJECTS

Media Arts and Design Capstone Project   January 2023 - April 2023
- Designed and implemented a 3D audio-visual immersive website using HTML/CSS, JavaScript, and three.js, along with ProTools, to guide users through breathing exercises for anxiety reduction.

EDUCATION

The University of Chicago, Chicago, IL
B.S. in Computer Science and B.A. in Media Arts and Design with specialization in Human Computer Interaction