Gina C. Brusco

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EDUCATION

University of Notre Dame Notre Dame, IN
B.S. in Computer Science | GPA: 3.78 | Cum Laude Honors May 2023

EXPERIENCE

Capital One New York, NY
Associate Software Engineer Aug 2023 - Present
- Supported design and development of a new customer portal, implementing a micro-frontend architecture with React-based frontend and AWS infrastructure.
- Developed a REST API using AWS Lambda, TypeScript, and Fastify to deliver identity services, leveraging OpenFGA for RBAC authorization and integrating Auth0 and an internal API for dual-identity authentication.
- Earned AWS Solutions Architect Certification and resolved vulnerabilities in AWS services, using an internal CI/CD pipeline for streamlined deployments.

Technology Development Program Intern Jun 2022 - Aug 2022
- Developed an iOS application using Swift and TypeScript to streamline the customer check-in process, aiming to reduce the 40% of total time customer wait time at bank locations.
- Planned to be deployed after internship across 334 Capital One branches, with an expected 2,000+ application launches per branch per month.

University of Notre Dame Notre Dame, IN
Undergraduate Teaching Assistant Aug 2021 - May 2023
- Teaching Assistant for CSE 34872 Programming Challenges, an advanced computer science elective at Notre Dame focused on data structures, algorithms, and problem-solving.
- Teaching Fellow for PHIL 10111 Introduction to Philosophy: God and the Good Life.

Engineering Tomorrow Bronx, NY
Lab Developer Intern & College Mentor Jun 2019 - Jan 2022
- Collaborated with professional engineers to create labs for prospective engineering students covering a variety of topics, specializing in Arduino application development in C/C++.

PROJECTS

Website for the City of South Bend Notre Dame, IN
Engineers Without Borders Club May 2020 - Jan 2021
- Led the development of a web application for South Bend residents to calculate cost savings from green stormwater infrastructure, utilizing JavaScript and HTML/CSS.

Neurological Disorder Treatment Simulator App Notre Dame, IN
Side Project Mar 2021 - May 2021
- Developed an Android mobile application to simulate the PROTXX physiological vibration acceleration sensor using mobile phone sensors, mentored by the CEO of PROTXX.

SKILLS

- **Frontend & Mobile**: React, TypeScript, JavaScript, HTML/CSS. Experience with Swift.
- **Backend**: Python, C, C++. Experience with SQL.
- **DevOps & Cloud:** Docker, AWS Services (Lambda, ECS, EC2, S3).

HONORS

Grace Hopper Celebration Speaker 2024 | Engineering Tomorrow Software Engineering Keynote Speaker 2024 | University of Notre Dame Latin Honors | College Board AP Scholar with Distinction Award | National Honor Society | School of the Holy Child Superior Achievement Math Award 2019 | Rensselaer Polytechnic University Medal Award 2018