Michael Allen Zulueta Dacanay

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EDUCATION

North Carolina State University, **B.S. in Computer Science**, Minors: Statistics and Business Entrepreneurship
GPA: 3.78/4 | Graduation date: Dec 2023, **M.S. in Computer Science** in May 2024

EMPLOYMENT and INTERNSHIPS

Software Development Intern, Tesla – Fremont, CA (Jan. - May 2023)
- Developed tools for factory software teams to monitor and analyze systems for factory execution and material flow, **minimizing downtime** on the production lines; using **Django**, **Golang**, **Angular**, and **MySQL**
- Get stakeholders on the same page from Fremont/Berlin/Austin/Shanghai factories to set up a resilient process for creating/updating **Grafana** dashboards, increasing **visibility into availability of Kubernetes pods and DB** sources

Cloud Engineer Intern (Enterprise Cloud Computing), Fidelity Investments – Durham, NC (Summer 2022)
- Assisted in the implementation of the strategic shift of CI/CD pipelines from Concourse to **Jenkins Core**, automating database migrations to the cloud quickly and securely
- Created **Python** automated testing suites for pipelines, reducing time of verification from **2-3 hours** to **5 mins or less**
- Won **1st prize** in the internal Fidelity hackathon – used **Voiceflow and OpenAI GPT-3** machine learning model to build a chatbot to provide simple summaries and query financial documents

Software Engineer Intern (Personal Income), Fidelity Investments – Research Triangle Park, NC (Summer 2021)
- Maintained and upgraded a web application for internal recognition of outstanding coworkers during the conclusion of the scrum sprint; using **Angular, Spring Boot, and PostgreSQL**
- Designed wireframes with Figma and solicited feedback from stakeholders following the Agile methodology

Systems Engineer Intern (Enterprise Technology), Fidelity Investments – Research Triangle Park, NC (Summer 2020)
- Built web dashboard using **Angular** and **Flask** to monitor EC2 image hydration status, which must be rehydrated with a fresh Fidelity-approved image every so often
- Utilized **Boto3**, an AWS Python SDK, to configure and read EC2, IAM roles, Security Token Service
- Redesigned AutoSys console from PERL to a modern tech stack of Angular, Flask, and **Oracle DB**

Code Coach, theCoderSchool – Raleigh, NC (July 2018 - Dec. 2020)
- Developed and delivered age-appropriate **computer science curriculum** to elementary and middle school students

NOTABLE HONORS and ACTIVITIES

- Selected as one of 30 **Caldwell Fellows**, a competitive merit scholarship program with a focus on servant leadership, reflection, and experiential learning
  - **Habitat for Humanity** (H4H) Service Learning Team: Utilized **ArcGIS** to map the racial inequalities in income and housing ownership in Wake/Johnston County. The data was used by H4H to **back legislation at the state government to pass funding** for reducing home ownership inequality.
- HackDuke **3rd Place Solving Inequality** Category (2022), NC State Datathon **Most Insightful** (2022), Make-A-Thon **Sustainable Solutions Awards First Place** (2021), HackHarvard, TreeHacks participant (2022-23)
- **Hack_NCState Organizer** – Logistics + Sponsorships/Outreach + Finance Director (2022 – 2023); Society of Asian Scientists and Engineers (SASE) **Professional Development Project Manager**
- Scholars Program, 1887 Fellows Program, Leadership Development Program, Society of Sales Engineers

SKILLS and CERTIFICATIONS

- **Languages**: Java, Python, Javascript/Typescript, C/C++, Golang, SQL, Swift, HTML/CSS, Ruby, PHP, SAS, R
  Frameworks/Libraries: Angular, React, Flutter, Flask, Django, NodeJS, Next.js, Spring Boot, Bootstrap, Rails
- **Technologies**: AWS (S3/EC2/Boto3), Azure, Git, Docker, Kubernetes, Jenkins, MongoDB, Grafana, Splunk