AIDEN GONZALEZ

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ABOUT ME

Technical Skills: Software Engineering, Project Management, Full-Stack Development, Collaboration
Programming Languages: JavaScript, Python, Node.js, Go, SQL, C, C#, Java, MATLAB, and more
Activities: Student Advisory Board, IEEE, Marching Band (Trombone Section Leader), Basketball

EDUCATION

Purdue University | Electrical and Computer Engineering | West Lafayette IN

- **MS ECE:** Engineering Teaching Assistantship | Plan-of-Study GPA: 3.50   May 2023
- **BS CMPE:** Honors College | Math Minor | GPA: 3.95 (with Distinction)   May 2022

SELECTED PROJECTS

- ***Regex DB***: (2023) Co-authored regular expression database research paper targeting ASE 2023
- ***Lantern***: (2022) Created a full-stack MVP accounting application using React and Node.js which aims to provide small business owners with digestible insights into their financial health
- ***hydRate***: (2020) Developed web app using AngularJS and Firebase which allows users to locate water fountains nearby, view associated user ratings on water quality, and add their own reviews

WORK EXPERIENCE

Engineering Graduate TA **– Purdue University,** West Lafayette IN   Aug 2022-May 2023

- Mentor 10 student-led engineering teams designing solutions for community partners
- Frequently meet with students outside of class to provide assistance on software projects
- Consistently communicate individual feedback to students, enhancing learning outcomes

Software Development Intern **- Precocity, LLC,** Dallas TX   May 2019-May 2023

- Reduced payroll accounting labor by 97% by developing and maintaining a multi-faceted system using SQL, Python, and JavaScript which automates internal payroll allocation
- Leveraged GitLab to build CI/CD pipeline to streamline the build, analysis, and test/production deployment of a Kotlin API, eliminating costly startup tasks for new API development
- Conducted on-location user experience research for a top-10 private U.S. company
- Used Node.js and App Engine skills to create a timesheet management application in Slack, increasing opportunities for utilization optimization and advanced project management

Embedded Software Intern **– Northrop Grumman Corporation,** Dulles VA   May-Aug 2021

- Conducted static code analysis on ESPAStar flight software to identify critical security vulnerabilities, then addressed findings to improve reliability and safety
- Devised and implemented workaround for SonarQube API limitation to allow for efficient extraction and compilation of over 100,000 static code analysis findings
- Developed various new CI/CD capabilities, including using Jenkins to automate detection and scanning of new Subversion tags and distribution of scanning artifacts to centralized auditing site

Cyber Software Intern **– Northrop Grumman Corporation,** Cincinnati OH   Jun-Jul 2020

- Researched, ideated, and generated a functional mockup for an internal gig economy marketplace aiming to optimize employee coverage and utilization by matching project managers with engineers seeking coverage
- Presented research findings and demonstrated mockup to VP of Engineering Innovation
- Leveraged Flask web framework to kickstart development of functional marketplace prototype
- Designed and implemented SQLite relational database, then wrote tests to ensure functionality