AIDEN GONZALEZ

817-209-9974   aidenlgonzalez2@gmail.com   **https://aidengonzalez.dev/**

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: 3.58   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 Teaching Assistant* – Purdue University,** West Lafayette IN Aug 2022-Present
- 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-Present (Part-Time)
- 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