

AIDEN GONZALEZ

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<https://aidengonzalez.dev/>

ABOUT ME

Technical Skills – Software Engineering, Project Management, Teaching, Mentoring, and Leadership

Programming Languages – JavaScript, Python, Node.js, SQL, C, Java, MATLAB, and more

Activities – Purdue Student Advisory Board, Purdue IEEE, Marching Band (Trombone Section Leader), Volunteer Concert Photographer, Python and Math Grader, Half Marathon Runner, Basketball Player

EDUCATION

Purdue University | Electrical and Computer Engineering | West Lafayette IN

- **MS ECE:** Teaching Assistantship | GPA: 4.0 May 2023
- **BS CMPE:** Honors College | Math Minor | GPA: 3.95 (with Distinction) May 2022

WORK EXPERIENCE

EPICS Graduate Teaching Assistant – Purdue University, West Lafayette IN 2022-Present

- Mentor student-led engineering teams designing solutions to needs of community partners
- Provide support and detailed feedback on engineering challenges and submitted assignments

Software Development Intern - Precocity, LLC, Dallas TX 2019-Present (Part-Time)

- Reduced payroll accounting labor by 97% by developing a multi-faceted system using SQL, Python, and JavaScript that automates internal payroll allocation
- Leveraged GitLab to build CI/CD pipeline to automate 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 an application that allows employees to edit, monitor, and submit timesheets directly through Slack, increasing opportunities for utilization optimization and advanced project management

Embedded Software Intern – Northrop Grumman Corporation, Dulles VA 2021

- Conducted static code analysis on ESPASAR flight software to identify critical security vulnerabilities, then addressed the findings to improve reliability and safety
- Devised and implemented workaround for SonarQube API limitation to allow for automated 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 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 engineering innovation VP
- Leveraged Flask web framework to kickstart development of functional marketplace prototype
- Designed and implemented SQLite relational database, then wrote tests to ensure functionality

PERSONAL EXPERIENCE

- **hydRate:** (2020) Developed web app to locate water fountains and view associated user reviews
- **Baritone Player:** (2018) Trained, rehearsed, and toured across the U.S. with world-class drum corps for 3 months, earning top-12 placement in DCI World Championship Finals