

AIDEN GONZALEZ

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<https://aidengonzalez.dev/>

ABOUT ME

Technical Skills – JavaScript, Python, Node.js, SQL, C, Java, MATLAB, and C#

Activities – Purdue IEEE (Software Saturdays and Code Café), Marching Band (Trombone Section Leader), Python and Math TA, Half Marathon (Top 10% Finisher), Volunteer Concert Photographer, Electric Vehicle Club, Engineering Mentor Corps, Purdue Student Advisory Board

Interests – Computers and technology, software development, photography, music, basketball

EDUCATION

BS Purdue University | Computer Engineering | West Lafayette IN May 2022
Engineering Honors Program | GPA: 3.99

Dean's List and Semester Honors – Fall 2018 through Fall 2021

HS Grapevine High School | High School Diploma | Grapevine TX June 2018
GPA: 4.0 | National Merit Scholar | National AP Scholar

WORK EXPERIENCE

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

Software Development Intern - Precocity, LLC, Dallas TX 2019

- 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 their timesheets directly through Slack, increasing opportunities for utilization optimization and advanced project management

Baritone Player - Crossmen Drum and Bugle Corps, San Antonio TX 2018

- Won a contracted position in world class corps through a highly competitive audition process
- Trained, rehearsed, and toured over 3 months to earn a spot in DCI World Championship Finals
- Constantly accountable for performance quality, preparedness, and professionalism

NOTABLE PROJECTS (SEE MORE ON [HTTPS://AIDENGONZALEZ.DEV/](https://aidengonzalez.dev/))

- ***hydRate:*** (2020) Developed web application (using Angular JS and Firebase database) to show users nearby public water fountains and their associated user reviews
- ***Autonomous Rover Prototype:*** (2018) Designed, programmed on Raspberry Pi in Python, and tested with team members, then generated extensive final report and presented to industry leaders