

AIDEN GONZALEZ

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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 Rank Leader and top freshman marcher), Math TA, Half Marathon (Top 10% Finisher), Volunteer Concert Photographer, Electric Vehicle Club, Engineering Mentor Corps, Purdue Student Advisory Board

Interests – Computer hardware, application development, photography, music, basketball

EDUCATION

BS Purdue University | Computer Engineering | West Lafayette IN May 2022
Engineering Honors Program | GPA: 4.0

Dean's List and Semester Honors – Fall 2018 through Spring 2020

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

WORK EXPERIENCE

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

- Spearheaded several internal projects for Dallas-based software consulting firm
- 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

Python Course Grader - Purdue University, West Lafayette IN 2019

- Paid homework grader for entry-level Python course
- Help students grow as programmers by providing detailed feedback on submissions
- Monitor grading website and regularly backup grading data

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/))

- **Virtual Reality Learning:** (2017) Constructed virtual-reality learning experience and analyzed data from experimentation to draw conclusions about the viability of VR as an educational tool
- **Fusion Energy:** (2017) Researched nuclear fusion as an energy source, collaborating with team members and U of Michigan faculty members, ultimately presenting findings to expert judges
- **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