

# 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

**Software Engineering Consultant (formerly Intern) - Precocity, LLC**, Dallas TX May 2019-Present

- Developed and debugged large C# .NET / JavaScript portfolio analytics application, using agile methodology to deliver well-tested solutions for a multinational financial services corporation
- Developed various internal automation tools greatly benefiting resource management, project planning, and cost allocation processes using GCP Cloud Functions and Apps Script
- Internship May 2019-May 2023: Reduced payroll accounting effort by 90% by developing system using SQL, Python, and JavaScript which automates payroll allocation; developed GitLab CI/CD pipeline to streamline Kotlin API development; used Node.js and GCP App Engine to create timesheet management application for Slack

**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

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

- Conducted static code analysis on ESPASAR 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