

NICOLAS ROBERTS

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EDUCATION

B.S. Computer Science and Systems – August 2021 – University of Washington Tacoma

Minor in Mathematics

Dean's List, GPA 3.8

SKILLS & TECHNOLOGIES

Proficient: Java, JavaScript, Typescript, Python, Dart

Technologies: DJI SDK v4 & v5, GitHub, Git, Subversion, SourceTree, GitHub Projects, Jira, Visual Studio Code, Eclipse, Android Studio, Xcode, JUnit, Terminal, Google Cloud Shell, Linux, Ubuntu, Node.js, React JS, Postman, PostgreSQL, Firebase, Heroku, LabVIEW, Power BI, Power Query, Microsoft 365, HTML, CSS, Bootstrap

Worked With: C, C++, Swift, Erlang, R, VBA, SQL

Relevant Coursework: Completed Data Structures and Algorithms

WORK EXPERIENCE

- 3/2022-Present Full Stack Software Engineer – Dronelink, Remote and Infrequent Business Travel**
- Developed web, mobile, and drone flight features and flight path algorithms used in autonomous drone missions by 1,600+ daily active users
 - Contributed to CI/CD workflows by testing, validating, and releasing streamlined native/web app updates, managing dev/prod environments, and keeping dependency health up to date
 - Collaborated with drone companies Aloft, Dronedesk, and DroneLogbook and developed Dronelink flight log integration uploads feature
 - Integrated two-factor authentication across platforms in order to secure several large drone company clients
 - Provided company support via diagnostics, drone flight testing, and community forums
 - Developed, managed, and debugged automated internal workflow CLI scripts, including batch deletion tools and localizations using Google Cloud Shell
- 9/2021-6/2022 Operations Research Analyst – NAVSEA Naval Undersea Warfare Center, Keyport, WA**
- Increased productivity over 30% by scripting and automating personally assigned manual data entry tasks using VBA and Power Query.
 - Personally developed and presented internal tool to 3 other office codes.
 - Obtained Secret Security Clearance and received office performance honors
- 7/2020-9/2020 Computer Science Intern – NAVSEA Naval Undersea Warfare Center, Keyport, WA**
- Developed control software for a torpedo rotator at a weapons station test facility using LabVIEW and an event-driven state machine architecture.
 - Engineered client-target communication via NI compactRIO and designed FPGA logic using I/O user-defined variables.
 - Integrated python-based equation solver into the LabVIEW system for real-time calculation and system control.
 - Collaborated with engineers in an agile environment to deliver prototypes, participate in client reviews, and present working software demos.

PROJECTS

- 1/2021-3/2021 Video Game “Cast to the Shadows” – top class-rated indie-style web browser video game**
- Collaborated in a team of four using scrum methodology to design and ship a fully functional browser-based game.
 - Implemented core game mechanics including enemy AI, movement logic, and collision detection in JavaScript.
 - Created all-original sprite assets and composed original soundtrack, integrating visuals and music into the game engine.

ACTIVITIES/INTERESTS

Cello Performance – Cellist with 10 years of professional development and extensive performance experience. Founding member of the Alaska Cello Intensive. Cello choir Uptown Funk video garnered over 2 million views. Built “hiNote” side business and website (React JS) from scratch to connect clients to musician ensembles for events.