Grant Walton

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Education

ARIZONA STATE UNIVERSITY, Bachelor of Science 2019-2022

- Software Engineering – GPA 3.71 *magna cum laude*

Relevant Skills

PROGRAMMING/COMPUTER

- Proficient: Python, Java, C#, Javascript, C, React, Django, Flutter, Firebase, HTML/CSS, Solidworks
- Intermediate: C++, Scheme, Autodesk 360, AutoCAD

RELEVANT COURSEWORK

- Data Structures, Algorithms, Discrete Math, Linear Algebra, Statistical Machine Learning, Operating Systems/Networks, Database Management, Web Based Applications, Embedded C

Extra-Curricular Activities

RESEARCH, Biomimetic Millisystems Laboratory University of California, Berkeley 2017

- Worked on the OpenRoach project to develop a lightweight robotic cockroach with path-following capabilities.
- Designed, fabricated and tested new mechanical parts for the robot.
- Worked with the team to document all progress and designs and helped to prepare and present a final report.

PERSONAL PROJECTS

- Built a chess engine that makes use of bitboards for move generation and board storage. The engine features an AI run off an alpha-beta pruning algorithm as well as a fully functional GUI.
- Built a trivia answering system designed to work with the live game show app HQ Trivia. For each question intercepted via proxy, the code scrapes and processes data from various search engines which is then fed into a machine learning algorithm to predict the most likely answer. This answer is then sent as a notification directly to the user's phone.

Work Experience

SOFTWARE ENGINEER, Innoflight Inc, San Diego, CA 2020-2023

- Worked as the lead engineer on a project developing architecture to create a secure data sharing portal in the cloud.
- Worked as the lead engineer creating a website using React and Django on a mySQL database to catalog all active semiconductor components allowing for multiple, user-friendly search options.
- Helped to develop robust testing automation software that has saved hundreds of man-hours in testing products.
- Implemented user defined traffic selection for an embedded software project.
- Contributed to a whitepaper detailing the application of beyond Von Neumann based architectures for bringing machine learning to flight computers.

FOUNDER, Small Business 2021-Present

- Started a small company to harness advances in 3D printing and 3D visualization software to offer customizable wearables at scale.
- Handled pitching to investors, all company paperwork, designing products in solidworks, developing automation software, testing products with volunteers, building a website and launching ad campaigns among other things.