

Austin Aguirre

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EXPERIENCE

Northrop Grumman Corporation

Software Engineering Intern

Roy, UT

May 2023 - Jul 2023

- Sentinel ICBM Programmer / Pivotal in development of an innovative online lab resource scheduling software using ReactJS, JavaScript, and PostgreSQL, requiring comfort with full stack development and problem solving.
- Demonstrated exceptional passion though actively engaging in frontend design, backend implementation, and database management to efficiently execute tasks assigned through Jira, and utilizing other Atlassian Collaboration tools.
- Employed the Agile Software Development Life Cycle to elevate the user experience and fine-tune overall performance, demonstrating a strategic and solution-oriented approach.

Silicon Mountain Technologies

Software Engineering Intern

Lakewood, CO

Jun 2022 - Sep 2022

- Implemented refinements and solved issues for Warranty Services Latin America and RezDox companie's websites.
- Highlighting expertise in Java for both frontend and backend development. Devised solutions tailored to the companies' specifications, seamlessly integrating PostgreSQL development on the database side.

Silicon Mountain Technologies

Technical Intern

Lakewood, CO

Jun 2021 - Aug 2021

- Played a key role in debugging internal company software, showcasing an understanding of intricate programming language techniques in Java. Conducted training sessions covering advanced programming topics, including high-level program design and architecture.

PROJECTS

Software Engineering Kickstarter Project

Nov 2022 - Dec 2022

Project Link : <https://github.com/austinaguirre/PunchStarter>

- Led the development of a Kickstarter-style public cloud-native website for project creation and funding.
- Leveraged industry standard technologies such as ReactJS, NodeJS, HTML, and CSS for the frontend, while implementing robust solutions on the backend using Amazon Web Services (AWS), including AWS RDS for database management.
- This leadership initiative showcased a forward-thinking approach and a deep understanding of cloud-based architectures.

Genetic Algorithm Stock Portfolio Optimizer

Nov 2022 - Dec 2022

Project Link : <https://github.com/austinaguirre/PortfolioOptimizer>

- Built a stock portfolio optimization tool in Python, integrating a genetic algorithm and a simulated annealing algorithm. This tool allocates weights to stocks within the S&P 500, showcasing advanced proficiency in Artificial Intelligence and quantitative analysis.

Advanced Computer Networks: Analysis of Machine Learning Algorithms for Network Traffic

Aug 2023 - Sep 2023

- Led an advanced networks project that leveraged Python's Pandas module for robust data handling and manipulation.
- Implemented a comparative study utilizing 4 state-of-the-art machine learning algorithms. The project focused on the classification of network traffic patterns, showcasing a deep understanding of machine learning techniques and their application in network security.

EDUCATION

Worcester Polytechnic Institute (WPI) BS in Computer Science GPA 3.56

2020 - Expected Graduation: 2024

Worcester Polytechnic Institute (WPI) Masters Candidate, Computer Science

Expected Graduation: 2025

COMMUNITY SERVICE

Santa Barbra County Food Bank

2016 - Present

- Demonstrated years of commitment through consistent volunteer activities and leadership in various services aimed at providing healthy food and support for thousands of elderly and youth in Santa Maria, California.

ACTIVITIES

Worcester Polytechnic Institute Varsity Swimming & Diving Team

2020 - Present

Phi Gamma Delta

2021 - Present

California Boys State Delegate

2019

SKILLS

- **Programming:** Python, PyTorch, C, C++, SQL, JavaScript, HTML/CSS, React, NodeJS, Node, Java, Bash, REST API
- **Relevant Coursework:** Software Engineering, Artificial intelligence, Algorithms and Data Structures, Database Design, Advanced Computer Networks, Operating Systems, Machine Learning, Database Management Systems, Systems Programming
- **Software:** Git, AWS, Jira, Confluence, Linux, Windows, MacOS, MS Office, Adobe Creative Suite

AWARDS

WPI Dean's Honor List

2021

WPI New England Conference Swim and Dive Team Championships

2021, 2022

Cal Interscholastic Federation Div 3 Swim/Dive Champions

2019