

JAMES ADELHELM

[linkedin.com/in/james-adelhelm](https://www.linkedin.com/in/james-adelhelm) | github.com/adelhelj | 858.245.8653 | james.robert.adelhelm@gmail.com

WORK EXPERIENCE

EDF Renewables North America

San Diego, CA

Software Engineering Intern, Grid-Scale-Power Development Team

June 2023 - September 2023

- Launched an API management transformation at EDF Renewables, evaluating, configuring, and implementing Apigee to centralize solutions, enhancing workflow, control, and scalability for over 200 organization-wide APIs.
- Orchestrated the development of a robust technology evaluation framework leveraging a weighted scoring methodology. Revolutionized assessment and comparison of internal technology usage, elevating operational efficiency by 50%.
- Spearheaded the establishment of rigorous unit testing and integration testing protocols within a microservices framework, elevating software reliability and enhancing overall system performance benchmarks.
- Led the exploration and implementation of serverless technologies in GCP, enhancing hosting infrastructure and delivering reduction in operational costs, leveraging efficient resource management and optimization techniques.
- Developed and maintained Python microservices, enhancing system efficiency, scalability, and performance.

Oregon State University

Corvallis, OR

Undergraduate Learning Assistant / TA

March 2023 - Present

- Teaching Assistant for [CS352: Usability Engineering](#) for 4 terms and [CS464: Open Source Software](#) for 2 terms.
- Conducted weekly office hours, provided detailed feedback on assignments for 500+ students via Canvas, answered forum questions and made important announcements on EdStem, and fostered a collaborative learning environment.
- Managed workload of up to 24 hours per week each term, alongside full-time pursuit of computer science degree.

Northrop Grumman Corporation

Los Angeles, CA

Investment Analyst

2021 - 2022

- Facilitated management of \$9.5B in alternative investments as part of a \$60B retirement plan, driving comprehensive due diligence on private equity and real estate investments, increasing portfolio diversification and risk management.
- Demonstrated exceptional capability in handling high-pressure situations, leading to strategic investment decisions, including allocations exceeding \$1 billion, and providing quarterly insights and recommendations to the CIO.

SKILLS

- **Languages:** Python, JavaScript, C++, Java, SQL, HTML, CSS, C, x86 Assembly Language
- **Tools:** Git, GitHub, GitHub Projects, Docker Desktop, Docker Compose, Google Cloud Platform, Drupal, MongoDB, Node.JS, Express.JS, React.JS, Angular, Figma, Apigee, Make, Firebase, Jira, OpenGL
- **Concepts:** Microservices, API Management, Agile, Scrum, Unit-Testing, Integration-Testing, CI/CD, UX/UI

EDUCATION

Oregon State University

Corvallis, OR

Bachelor of Science in Computer Science

March 2024

- **GPA & Honors:** 3.74 / 4.00 – College of Engineering Completion Scholarship Recipient; Honor Roll (All terms)
- **Coursework:** Software Engineering 1 & 2, Data Structures, Algorithms, Web Development, Databases, Operating Systems, Computer Science 1 & 2, Usability Engineering, Open-Source Software, Computer Architecture & Assembly Language, Discrete Math, Computer Graphics, Engineering Capstone Project

University of Southern California, Marshall School of Business

Los Angeles, CA

Bachelor of Science in Business Administration

May 2020

- **Coursework:** Financial Analysis & Valuation, Adv. Writing for Economics, Statistics, Data Analysis, Org. Behavior and Leadership, Strategic Management, Managerial & Fin. Accounting, Communication Strategy

PROJECTS

Busy Beaver – github.com/CS467-OPM-Site/OPM

- Led development efforts for a web-based project management application similar to Jira as the primary frontend developer on an Agile team of three, contributing over 20,000 lines of code across 40 commits and 30 pull requests.
- Leveraged React, JavaScript, and CSS to construct the frontend while orchestrating the seamless integration of Firebase, implementing OAuth for enhanced user authentication, and bolstering the app's security and functionality.