

Jad Saad

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Education

Portland State University, Honor's College
Bachelor of Science in Computer Science
GPA: 3.82

Portland, OR
Sept 2024 – Present

Relevant Coursework: **Data Structures and Algorithms, Algorithms and Complexity, Operating Systems, Matrices, Database Management Systems**

Portland Community College
Associate of Science
GPA: 3.8

Portland, OR
Sept 2022 – June 2024

Early College High School Program: Simultaneously earned AS degree and high school diploma

Personal Projects

Prep&Count: 3-in-1 Fitness AI Application | *React Native, Node.js, Express, MongoDB, JavaScript, RESTful APIs, Git*

- **Designed and developed** a scalable fitness app integrating workout tracking, nutrition logging, and **AI-powered** meal-prepping using OpenAI API.
- **Built** secure **REST APIs** and **backend services** for real-time data flow, user authentication, and analytics.
- **Engineered dynamic UI** components and responsive layouts to enhance user engagement.

Bond: Real-Time Messaging Platform | *React, Node.js, Express, MongoDB, WebSockets, RESTful APIs, Git*

- **Built** a real-time messaging system using **WebSockets** for instant communication.
- **Designed** scalable backend using **REST APIs** for message storage and user management.
- **Documented design process** through design and architectures docs as well as test plans
- **Enhanced** user experience by developing an intuitive and responsive **React frontend**.

Discord Server Remake | *Python, Visual Studio Code, Git*

- **Engineered** a scalable communication server in Python utilizing a custom 2-3 Tree data structure.
- **Integrated** a channel organization system enabling **$O(\log n)$** search complexity for channel operations
- **Utilized black box and white box testing** to ensure functional accuracy, security, and performance.

Skills

Programming Languages: C++, C, Python, JavaScript, HTML, CSS, SQL

Frameworks and Tools: React, React Native, Node.js, Express, WebSockets, RESTful APIs, PostgreSQL, MongoDB, C++ STL, VS Code, Vim, Unix, PowerBI

Technical Skills: REST APIs, Data Structures, Algorithms, Object-Oriented Programming, AI/ML Integration, Debugging (Valgrind, GDB), Microservices Concepts, Black Box and White Box Testing

Soft Skills: Problem Solving, Team Collaboration, Agile Development, Time Management, Technical Writing