Ryan Soe

+1 5103641905 | ryansoe26@gmail.com | linkedin/ryansoe | github/ryansoe

EDUCATION

University of California, San Diego   Sept. 2024 - Jun. 2026
B.S. in Computer Science   GPA: 3.95/4.0

De Anza College   Sept. 2022 - Jun. 2024
A.A. in Computer Science   GPA: 3.87/4.0
Relevant Coursework: Data Structures, Algorithms, Software Engineering, Object-Oriented Programming

TECHNICAL SKILLS

Front End: Javascript, ReactJS, SwiftUI, VisionKit, HTML5, CSS3
Back End: Python, C/C++, Java, NodeJS, Express, Flask, Swift, TensorFlow
Development Tools: Mongo, Xcode, Git, Bash, Jupyter

PROJECTS

AI-Powered Resume Scanner | ReactJS, Python, Flask, PyTorch, MongoDB   Feb 2025
- Built an AI-powered resume ranking system using machine learning-driven NLP models to analyze job descriptions and match candidates, achieving **80%+** accuracy in relevance scoring.
- Developed a FastAPI backend that processes PDF/DOCX resumes in under **2 seconds**, extracting key skills and experience using Named Entity Recognition (NER).
- Designed a full-stack web application with a React-based UI, enabling HR professionals to rank and review candidates **3x** faster with AI-driven insights.

Macro Tracker iOS App | Swift, SwiftUI, VisionKit   Feb. 2025
- Developed a macro tracking app with barcode scanning, enabling users to scan product barcodes via Apple's VisionKit, retrieve nutrition data from OpenFoodFacts, and automatically log macronutrient intake, reducing manual input by **80%**.
- Designed a **goal-tracking system** with interactive progress bars, allowing users to set daily macro goals, track intake in real time, and view historical macro data, improving meal planning accuracy.
- Implemented persistent data storage using UserDefaults, ensuring **100%** session continuity by retaining daily progress, saved history, and custom goals even after app closure.

Twitter Clone | Mongo, Express, ReactJS, NodeJS (MERN Stack)   Oct. 2024
- Engineered a feature-rich social media application with over **10** key features, including user authentication, post creation, and real-time notifications, showcasing end-to-end full-stack development expertise.
- Developed reusable front-end components using React and optimized data fetching and caching with React Query, improving API response times by **40%** and enhancing user engagement.
- Integrated secure back-end functionalities, including password hashing, JWT-based authentication, and scalable APIs using Node.js and Express, processing over **500** user interactions in testing scenarios.

AI Chess Bot | C/C++, Bash   May 2024
- Built a chess engine using C/C++, implementing Minimax and Alpha-Beta pruning algorithms to simulate optimal strategies by evaluating up to **15** layers of potential game moves and counter-moves.
- Processed and analyzed up to **2,000** possible moves per second, significantly enhancing performance by reducing unnecessary computations through over **50%** effective pruning techniques.
- Designed robust and scalable data structures to represent chessboard states, representing standard 64-square boards with **1,000+** configurations, ensuring flexibility for future integration with artificial intelligence enhancements or graphical user interface development.

EXPERIENCE

Software Developer   Cupertino, CA
DeAnza Hacks   Sept. 2023 - Oct. 2023
- Collaborated in a cross-functional team of **5** to design and develop a web application improving accessibility to a digital library of **500+** books through screen reader compatibility.