Raymond House

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EDUCATION

University of California Irvine | B.S. in Computer Science (Graduating June 2025)

Irvine, CA

- Specialization: Intelligent Systems

TECHNICAL SKILLS

Skills:

- RESTful / GraphQL API Development
- Mobile and Web Development
- Object Oriented Programming
- Compiler Design
- Git / Source Control
- Relational Databases
- Data Structures and Algorithms
- QA / Testing

Languages: Java, Javascript, Typescript, C++, Python, Go, Kotlin
Software: JetBrains Suite, Android Studio, Docker, Visual Studio Code, Xcode, Postman, Postgres
Frameworks/Libraries: Next.js, React, Prisma, JUnit, Vue, Apollo, Swing, ML Kit, Pandas

EXPERIENCE

Software Development Researcher | UC Irvine

2023 Jul — Present

- Developed the Android version of a CNN-based app which identifies eyedrop medication labels using object detection and text recognition with a team.
- Leveraged our machine-learning model using Java and Kotlin to display the expiration date of medicine bottles.
- Wrote utility methods to store and retrieve JSON parsed data in internal android storage.

Software Engineer Intern | NeuroLeap Corp.

2023 Sep — 2024 January

- Implemented backend solutions for a startup, developing API endpoints in Go for email transactions using Sendinblue, catering to user registrations and other web submissions.
- Engineered a secure user information change API with session token validation.
- Conducted testing of all APIs using Postman and Postgres to ensure reliable backend functionality.

Data Label Analyst | Field AI

2024 April — Present

- Assisted in training an AI-based autonomous vehicle using semantic segmentation, with LiDAR software.

Personal Projects | Developed projects of varying technologies

2021 June — Present

- Built an SSA based compiler from scratch in Java for a context-free grammar, generating instructions in DLX (RISC processor architecture). Program visualizes the intermediate representation in GraphViz using Dot.
- Developed a dashboard for authorized students at UC schools to find housing with Next.js, used Prisma ORM to connect to a Postgres DB and migrate data, queried with graphQL. Front end on Vercel, database on Supabase.
- Developed a website that takes a Protein Data Bank file and displays it as a 3D render using Three.js, allowing the user to visualize protein structure. PDB parsed in Java.
- Engineered and serialized a ML model using pickle, trained on a Kaggle dataset, to detect malware.