

Ronald Arifin

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EDUCATION

University of California, Berkeley

California

Electrical Engineering and Computer Science, B.S.

Expected Graduation: December 2024

- **Relevant Coursework:** Introduction to Database Systems, Introduction to the Internet: Protocol and Architecture, Computer Security, Operating Systems, Algorithms and Data Structures
- **Campus Organizations:** Computer Science Mentors [Senior Mentor], Cloud Computing at Cal [Lead Engineer], Google Developers at DVC [President]

EXPERIENCE

HrHouz – Software Engineer Intern

Jun 2024 – Present

Python, Docker, PostgreSQL, Github Actions, Embeddings

Berkeley, CA

- Led the development of a top K applicant ranking service, expanding HRHouz's product offerings to recruiters.
- Optimized resume matching for recruiters by chunking candidate resume and applying keyword searches & **cosine similarity vector search** using pgvector improving resume search precision by 37%
- Built pipelines to batch data transfer from OLTP to OLAP system pushing over 50,000 records, streamlining data preparation for custom embedding training.
- Streamlined service setup for PostgreSQL & back-end server with Make and Docker, reducing build and testing time by 28%.

UC Berkeley - CS61A Head Teaching Assistant

May 2023 - Present

Python, SQL, Scheme

Berkeley, CA

- Led labs and discussions for Berkeley's CS61A, teaching OOP, SQL, Scheme, and recursion to over 1,000 students, improving their understanding and performance in programming fundamentals.
- Managed CS61A Edstem platform, coordinating with TAs on logistics and addressing 300+ theory questions.

Skygeni – Software Engineer Contract

Jan 2024 - May 2024

Python, OpenAI API, Function Calling

Remote

- Integrated an LLM chatbot into Skygeni's services, providing real-time marketing metrics insights, improving user decision-making.
- Implemented tool calls, enabling the chatbot to retrieve key marketing data within Skygeni's platform.

Sayurbox – Software Engineer Intern

Aug 2021 - Feb 2022

Typescript, React, Axios

Remote

- Increased Sayurbox WMS receiving process by 23% by changing the UI and UX in 5 view controllers impacting over 72 warehouse workers with **Typescript, React, and Reactstrap** library
- Integrated 10+ APIs using **Axios** to display, submit, and delete data in various warehouse processes
- Led task distribution and communicated git merging with other engineers hitting 1 epic task per scrum cycle

PROJECTS

StudySuite: Stanford Hackathon Winner | *Python, Fetch AI*

- Engineered an interactive learning platform using uAgents, video-to-text extraction, and Large Language Models, applying active recall and spaced repetition principles to boost student retention by 200%, winning 1st place at Stanford Treehacks out of 120 teams.

Database System | *Java*

- Designed and implemented efficient B+ Tree indexing structures for quick file look ups
- Programmed multigranularity locking and lock management system to prevent deadlock in a transaction
- Applied ARIES recovery protocol to recover data in a database crash by implementing redo and undo logging

HONORS AND CERTIFICATIONS

AWS Cloud Practitioner – Foundational

TECHNICAL SKILLS

Languages & Technologies: Python, SQL (Postgres), NoSQL (MongoDB), Java

Frameworks & Libraries: React, Axios, Flask, Pytest, Parse

Developer Tools: Git, Docker, Github Actions, VS Code, Postman, Make, AWS, Warp, Raycast, Vim