Ronald Arifin

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U.S. Citizen

🎓 Education

University of California, Berkeley   Expected Graduation: December 2024
Electrical Engineering and Computer Science, B.S.

> **Relevant Coursework**: Introduction to the Internet: Protocol and Architecture (CS 168), Computer Security (CS 161), Operating Systems (CS 162), Introduction to Database Systems (CS 186), Algorithms and Data Structures (CS 61B)
> Spearheaded the first campus-wide **hackathon** in DVC with over 100 participating students and 20+ teams in 2 days
> **Campus Organizations:** Computer Science Mentors, Cloud Computing at Cal, Google Developers at DVC

📊 Experience

HrHouz – Software Engineer Intern   Jun 2024 - Present
Python, Docker, PostgreSQL, Github Actions   *Berkeley, CA*

> Implemented **cosine similarity vector search** allowing recruiters to find the best resume stored in a PostgreSQL vector database
> **Programmed a middleware** to allow batching and streaming data transfer from FE OLTP to BE OLAP speeding up testing by 11%
> **Containerized applications** using Docker and **simplified PostgreSQL and service setup** using Make speeding up development by 28%
> **Developed Testing Framework** with Pytest for the resume ranker service to ensure REST APIs for the service is working

UC Berkeley - CS61A Teaching Assistant   May 2023 - Present
Python, SQL, Scheme   *Berkeley, CA*

> Managed CS61A communication platform, coordinating with 5 focus areas and **answering 200+ theory and logistics questions**
> Led two groups of 5 students **reviewing exam level questions and providing advice** to succeed in the class and at Berkeley
> **Taught a group of 20 students in lab** sections covering recursion, iterators, OOP, SQL, and Scheme improving their scores by 11%

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

Secure File System | Go

> Applied symmetric key encryption then HMAC on an unsafe data store to ensure authenticity and confidentiality
> Implemented store file, and get file, append file features using linked lists to ensure efficient appends in Go
> Applied public key encryption and digital signatures to ensure secure file sharing satisfies security principles

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

📄 Certifications and Honors

AWS Cloud Practitioner – Foundational   Jul 2023

1st Place: Stanford Hackathon - TreeHacks [Fetch.AI]   Feb 2024

🧪 Organizations

Cloud Computing at Cal | VP of Development   Jan 2023 - Present

> Conducted internal workshops for PMs and Engineers, promoting a culture of continuous learning and professional growth
> Led a team of 4 developers to design and integrate an AI chat-bot on a client platform, improving customer support by 28% by using function calling and text completion features from Open AI API (PM)

⚙️ Skills

Programming Languages : Python, Java, JavaScript, Typescript, C++
Technologies : AWS, React JS, React Redux, Reactstrap, Bootstrap, Axios, HTML, CSS, PostgreSQL, MySQL
Tools : Git, Bitbucket, Confluence, Jira, Figma, Click Up, Notion, ChatGPT API