

Ronald Arifin

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EDUCATION

University of California, Berkeley

Expected Graduation: December 2024

Electrical Engineering and Computer Science, B.S.

California

- 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

June 2023 - Present

Software Engineer Intern

Remote

- Developed and maintained a full-stack web application using React, Node.js, and PostgreSQL to streamline HR processes
- Implemented RESTful APIs to handle data communication between front-end and back-end systems
- Collaborated with cross-functional teams to gather requirements and deliver features that improved user experience
- Utilized Git for version control and participated in code reviews to ensure high code quality

University of California, Berkeley

January 2023 - May 2023

Teaching Assistant for CS61A: Structure and Interpretation of Computer Programs

Berkeley, CA

- Led weekly discussion sections and lab sessions for 30+ students, reinforcing concepts in Python, Scheme, and SQL
- Held office hours to provide one-on-one support, improving student understanding and performance
- Collaborated with course staff to develop and grade assignments, projects, and exams

SkyGeni

June 2022 - August 2022

Software Engineer Intern

Remote

- Developed and maintained microservices using Node.js and Express.js, improving system modularity and scalability
- Implemented data processing pipelines using Apache Kafka for real-time event streaming
- Contributed to the design and implementation of RESTful APIs, enhancing communication between services
- Participated in Agile development processes, including daily stand-ups and sprint planning

Sayurbox

June 2021 - August 2021

Software Engineer Intern

Jakarta, Indonesia

- Assisted in the development of an e-commerce platform using React and Redux, improving user experience
- Implemented responsive design principles, ensuring compatibility across various devices and screen sizes
- Collaborated with the backend team to integrate APIs and optimize data retrieval processes
- Participated in code reviews and contributed to the improvement of coding standards and best practices

PROJECTS

Study Suite

September 2022 - December 2022

- Developed a comprehensive study management platform using React, Node.js, and MongoDB
- Implemented features such as task scheduling, progress tracking, and collaborative study sessions
- Utilized Redux for state management and Socket.io for real-time updates
- Deployed the application on AWS, ensuring scalability and high availability

Database Management System

January 2023 - May 2023

- Designed and implemented a relational database management system from scratch using C++
- Developed key components including query parser, execution engine, and storage manager
- Implemented B+ tree indexing for efficient data retrieval and query optimization
- Achieved significant performance improvements over naive implementations in benchmark tests

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