ALVIN IKAIKA LAI

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Skills & Technologies

- → Python, Java, SQL, C++, Javascript
- → Snowflake, Informatica, SSMS
- → PostgreSQL, MongoDB, Neo4J

- → Object-oriented Design
- → Data Structures, Algorithms
- → Agile Development

- → Web & Desktop App Development
- → Git, GitHub
- → React Native, NodeJS, Bootstrap

Experience

Data Engineer • Hawaiian Airlines • Honolulu, HI   March 2021 - Present

- → Optimize query performance by 90% to deliver critical data to stakeholders in a timely manner.
- → Remediate data quality issues to better-inform analytical and strategic business decisions.
- → Document vital legacy components to minimize operational impact during passenger service system migration.

Office Clerk & Assistant • Hawk Contracting Group • Honolulu, HI   Jun 2019 - Aug 2019

- → Wrote scripts to extract 3D displacement data from a logger using PowerShell and the sensor API.

Projects

Audio Synthesis Web Application   Aug 2020 - Dec 2020

Worked in a team of 4 to develop a web application for exploring core sound design concepts such as waveform timbre, ADSR, filtering, and frequency modulation.

- → Developed a web client for audio synthesis using Node.js, React, and open source libraries.
- → Created reactive GUI components that dynamically update synthesizer output.
- → Built and styled a webpage with a virtual keyboard synthesizer using Bootstrap and HTML/CSS.
- → Contributed to requirements gathering, system design, documentation, and demonstrations.

Database Course Projects   Aug 2020 - Dec 2020

Gained hands-on experience with popular database technologies.

- → Developed ETL scripts, aggregate analysis queries, and DAL programs that implement CRUD interfaces for PostgreSQL, MongoDB, and Neo4j.
- → Optimized slow queries by using profilers to identify inefficiencies.
- → Developed client applications that use the DAL to retrieve and display metrics to the user.

Content Management System   Jan 2020 - May 2020

Worked in a team of 6 to develop a content management system and web application for park staff to create configurable multimedia modules about nature parks, museums, and landmarks.

- → Developed a feature to retrieve and display content from nearby landmarks using Google Maps API.
- → Implemented event listeners to update content displayed on webpage.

Education

Loyola Marymount University

B.S. in Computer Science, GPA 3.50   Dec 2020