

Kenneth Lee

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EXPERIENCE

Software Engineer (Python, FastAPI, Flask, SQLAlchemy, PostgreSQL, Typescript, React, Redux, Docker)

Vault Health Inc.

Jan 2022 - Sept 2022

- Developed features for Scheduling as a Service to support the organization's requirements for clinical trial appointments.
 - Integrated OAuth in Scheduling as a Service platform using Ory Hydra to authorize incoming requests.
 - Developed webhook handlers using AWS Lambda and SQS to upsert appointments with external information.
 - Published Python SDK using Poetry; Integrated SDK into a separate web application.
 - Implemented core functionality for Scheduling as a Service to allow appointment cancellations.
 - Built and migrated appointment models in Scheduling as a Service using SQLAlchemy to create database relations.
- Developed API endpoint to retrieve clinical trial appointments by consuming previously integrated SDK.
- Automated relevant unit / integration tests in correspondence to acceptance criteria of tasks in Python and Gherkin.
- Supported the team ownership of features and maintenance for a clinical encounters product while adhering to CFR Part 11 and SOC-2 validation requirements. Estimated technical dependencies by participating in task grooming sessions.
- Assessed code quality by engaging in code reviews using GitHub, and taking part in discussions to improve pull requests.
- Evaluated newly implemented features to validate that the pull request fulfills the acceptance criteria of the original task.

Covid Clinical Lab Scientist

LetsGetChecked Inc.

Nov 2020 - May 2021

- Processed 8,000 to 12,000 samples of Covid specimens using Hologic Panther assay machines.
- Verified the validity of Covid testing results by performing data analysis according to FDA clinical guidelines.
- Prepared Hologic Panther Covid Assay reagents according to the reconstitution manual of Hologic Panthers.
- Performed daily and monthly maintenance tasks for Hologic Panthers, such as replacing consumables, monthly cleaning, etc.
- Cooperated with a team of 30 clinical lab scientists to ensure smooth transitions in tasks performance between shifts.

PROJECTS

Leaveit! (ReactJS, Redux, Javascript, HTML5, CSS3, Python, Flask, SQL, PostgreSQL, SQLAlchemy, Docker)

[live](#) | [github](#)

A calorie tracker for dogs, written in JavaScript and Python

- Built out structure of the app with React functional components, such as custom forms, buttons, meal tracker items, etc.
- Implemented the resting energy requirement formula for dogs using Python, and incorporated the function into the corresponding Flask Blueprint that handles routes pertaining to the pet energy requirements.
- Styled the entirety of the app and organized functional components and their CSS modules into individual directories to ensure a clean, modular codebase of the application; preserved general adaptive structure of each functional component.

SKILLS

Programming Languages

- Python, Javascript, Typescript, HTML5, CSS3, SQL

Frameworks/API

- React, Redux, Flask, FastAPI, Express, SQLAlchemy, Sequelize, PostgreSQL, NodeJS

AWS Tools

- S3, ECS, Lambda, SQS, EventBridge, Cloudwatch

Others

- Docker, Git, GitHub, Heroku, Rest API, Agile Software Development, SDLC

EDUCATION

Web Development - *App Academy* | June 2021 - December 2021

B.S. in Biology - *University of California, Riverside* | 2015 - 2019