Kenneth Lee

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EXPERIENCE

Associate Applications Development Engineer (Ruby, Ruby on Rails, Active Record, MySQL, JavaScript, React, Gherkin)
Medidata Solutions   Jan 2023 - Present
- Developed features for Randomization and Trial Supply Management (RTSM) to support the organization's business needs.
  - Implemented API endpoints to support retrieval of packlists in clinical studies using MVC architecture.
  - Transformed existing React components using enterprise level frontend libraries to articulate fixes for various bugs.
  - Resolved various bugs impacting users day-to-day workflow, including repairing data aggregation in CSV downloads.
  - Conducted investigation on unexpected behaviors reported by customers and proposed fixes to stakeholders.
- Contributed to 100% code coverage for unit / integration tests, and automated behavioral tests using Ruby and Gherkin.
- Collaborated with product manager and fellow engineers to identify and prioritize requested upcoming features.
- Communicated and presented to stakeholders newly implemented features and bug fixes to update various teams.
- Contributed to team ownership of numerous features; estimated technical level of effort by partaking in task estimations.

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.

PROJECTS

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

Frameworks/API
- Ruby on Rails, React, Redux, Flask, FastAPI, Express, SQLAlchemy, Sequelize, MySQL, PostgreSQL, NodeJS

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

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*