KEVIN WON

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SOFTWARE ENGINEER

PROGRAMMING LANGUAGES: JavaScript, Python, Java, SQL, HTML, CSS
FRAMEWORKS/TOOLS: React, Redux, Node.js, Express.js, Flask, Sequelize, SQLAlchemy, PostgreSQL, SQLite3, Amazon Web Services (AWS S3 buckets), Google Maps API
OTHER SKILLS: Leadership, Pair Programming, Git, Render, Scrum, Agile, GitHub, Kanban, Wireframes

PROJECT EXPERIENCE

YUMMYEATS • *Flask* • *React.js* • *AWS S3* • *Google Maps API* • *Git*   **GitHub** • **Live Site**
- Created a full CRUD system for restaurant management using Flask for backend and React for frontend, enabling efficient management and promotion for restaurant owners.
- Employed AWS S3 buckets and Boto3 to enable AWS uploads, providing a robust image management solution while avoiding the risks of changing external URLs.
- Partnered and pair-programmed to integrate Google Maps using @react-google-maps/api and the Google Geocoding API, allowing maps to display address, city, and state data instead of just latitude and longitude coordinates.
- Took a leadership role in a 4-member software engineering team, actively collaborating and enforcing deployment best practices with Git, thereby reducing the chances of merge conflicts and accidental pushes to the main branch.

BOBABUZZ • *Redux.js* • *Flask* • *SQLAlchemy* • *Wireframes*   **GitHub** • **Live Site**
- Applied Redux for global state management, ensuring consistent and accessible data across the app, integrating thunks to manage asynchronous actions, facilitating server data retrieval and synchronization with the app's state.
- Enhanced user authentication, error handling, and validation using WTForms.validators packages, improving the user interface, experience, and transparent error message communication.
- Adopted SQLAlchemy to establish a powerful and efficient data access layer, which includes designing and implementing SQLAlchemy ORM models to define database schema, tables, and relationships.
- Incorporated draw.io for wireframes, providing visual validation of user interfaces, layouts, and functionality in the early development stages, expediting issue identification and resolution, leading to faster development and reduced rework.

CHILLBNB • *React.js* • *Sequelize* • *Express.js* • *PostgreSQL*   **GitHub** • **Live Site**
- Leveraged React to create a dynamic user interface, employing components, hooks, and lifecycle methods to provide an engaging and responsive user experience.
- Utilized Sequelize as the ORM (Object-Relational Mapping) tool to streamline database operations, which includes leveraging the query API for complex and optimized database queries, enabling efficient data retrieval and manipulation.
- Employed Express-validator middleware for request parameter validation, enhancing data input security and quality by checking data types, verifying against custom validation rules, and ensuring that data conforms to the expected format.
- Selected PostgreSQL as the production database over SQLite3 due to its strong performance and data consistency, particularly for high-demand, data-intensive applications in production environments.

WORK EXPERIENCE

INDEED • *Quality Assurance Automation Engineer* • San Francisco, CA   **Jan 2021 – Mar 2023**
- Owned test automation for service that powers job recommendations on Indeed's Home Page Job Feed
- Achieved a minimum of 80% code coverage for multiple projects by developing unit, integration, and end-to-end tests that live in the application repository written in Java.
- Collaborated with engineers to define requirements, testing needs, and strategies to increase code coverage.
- Led release management to help cut builds, find flaws in automated processes, track down broken tests, debug deployment issues, monitor releases, and migrated multiple projects from Jenkins to GitLab CI/CD.
- Worked with engineers to automate the entire release pipeline for push-on-green.
- Refactored in-house Python testing framework to eliminate flakiness and overhead maintenance by writing stable integration tests within the application code.

- Integrated SonarQube with GitLab CI/CD to measure code coverage that resulted in tech debt for code clean-up and refactoring.
- Held engineers accountable during code reviews by checking for unit and integration test coverage.

INDEED • *Quality Assurance Engineer* • San Francisco, CA   **Aug 2017 – Dec 2020**
- Worked with engineers and data scientists to deploy machine learning models to help Indeed measure low-value and unqualified applications, leading to better applicant quality.
- Experienced in backend testing and knowledgeable with REST APIs and gRPC.
- Led release management in deploying and monitoring releases to QA and production environments (Datadog), then directing the QA team through verifying features, bug fixes, and regression tests.
- Experienced in multiple tools (including internal) to investigate errors and other suspicious behavior by tracing network requests, tailing console and server logs (developer tools and terminal), modifying cookies, health checking servers, and monitoring proctor test groups.
- Onboarded 4 QA engineers, 1 automation engineer, and 1 QA manager to the team, leading them through best practices, and adopting a shift-left testing mentality toward a push-on-green initiative for CI/CD.
- Identified testability issues with the QA environment and received engineering and automation support to build new tools to generate test data.

MORE EXPERIENCE AVAILABLE UPON REQUEST • *Quality Assurance Engineer* • San Francisco, CA

EDUCATION

APP ACADEMY • Full Stack Software Engineer   **October 2023**
- JavaScript, Python, React.js, Redux, Flask, SQLAlchemy, Sequelize, Node.js, Express.js, Git, HTML5, CSS3

SAN FRANCISCO STATE UNIVERSITY • *Bachelor's Degree, Microbiology* • San Francisco, CA   **May 2011**