

# KEVIN WON

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## SOFTWARE ENGINEER

**PROGRAMMING LANGUAGES:** Python, JavaScript, 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, Pytest, JUnit 5, TestNG

**OTHER SKILLS:** Test automation, Debugging, Release management, Git, GitHub, GitLab, Jenkins, Render, Agile, Scrum, Kanban

## WORK EXPERIENCE

**INDEED** • *Quality Assurance Automation Engineer* • San Francisco, CA Jan 2021 – Mar 2023

- Spearheaded test automation initiatives for 4 job recommendation services, achieving 80% test code coverage.
- Refactored Python Pytest framework with Java JUnit 5 and TestNG testing framework, reducing tests by 20%.
- Collaborated with cross-functional teams to define requirements and strategies, reaching 80% code coverage.
- Led release management on 2-week sprints, tracking failed tests and debugging deployment issues.
- Migrated 4 deployments from Jenkins to GitLab CI/CD, reducing build times by 30%.
- Integrated SonarQube to assess code coverage, addressing technical debt and raising code coverage to 80% minimum.
- Oversaw code reviews for 8 engineers, ensuring robust unit and integration test coverage.

**INDEED** • *Quality Assurance Engineer* • San Francisco, CA Aug 2017 – Dec 2020

- Debugged Python automation test failures by performing root-cause analysis, achieving 90% test suite pass rate.
- Automated 4 release pipelines towards push-on-green, enabling CI/CD and increasing team throughput velocity by 30%.
- Managed 4 deployments, guiding QA team through verification processes and regression testing.
- Identified testability issues and developed tools for generating test data, reducing regression testing time by 40%.
- Onboarded 4 QA engineers, 1 automation engineer and 1 QA manager, fostering shift-left testing mentality.
- Deployed machine learning models on quarterly cadence, reducing low-value applications by 25%.

## PROJECT EXPERIENCE

**YUMMYEATS** • *REST APIs* • *Flask* • *AWS S3* • *Google Maps API* • *Git* • *Pair Programming* • *Leadership* [GitHub](#) • [Live Site](#)

- Developed REST APIs with Flask blueprints, enhancing code organization, reusability and maintainability.
- Configured AWS S3 to enhance file uploads, ensuring reliable storage and retrieval of images over traditional URLs.
- Pair-programmed and customized Google Maps Embed API for interactive restaurant location viewing.
- Demonstrated leadership role in 4-member team, minimizing Git branch merge conflicts and quick resolutions..

**BOBABUZZ** • *REST APIs* • *Flask* • *Redux.js* • *SQLAlchemy* • *Wireframes* [GitHub](#) • [Live Site](#)

- Designed Flask-based REST APIs through routing, request processing, database interactions and user authentication.
- Implemented Redux for global state management, ensuring consistent and accessible data for retrieval and processing.
- Adopted SQLAlchemy for data access layer, including ORM models to define database schema, tables and relationships.
- Created wireframes for visual validation, expediting issue identification and resolution in early development stages.

**CHILLBNB** • *React.js* • *Sequelize* • *Express.js* • *PostgreSQL* [GitHub](#) • [Live Site](#)

- Leveraged React to design responsive user interfaces, implement components, hooks and lifecycle methods.
- Utilized Sequelize for database operations, applying query API for optimized data retrieval and manipulation.
- Customized Express-validator middleware for data input security and ensuring data integrity.
- Deployed PostgreSQL database in production, emphasizing strong performance and data consistency.

## EDUCATION

**APP ACADEMY** • *Full Stack Software Engineer* Oct 2023

- Python, JavaScript, React, Redux, Flask, SQLAlchemy, PostgreSQL, Sequelize, Node.js, Express.js, Git, HTML5, CSS3

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