

# KEVIN WON

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## SOFTWARE ENGINEER

**Programming Languages:** Python, JavaScript, Java, HTML, CSS, SQL

**Web Development Frameworks:** React, Redux, Node.js, Express.js, Flask

**Database Systems and ORMS:** PostgreSQL, MongoDB, SQLite, SQLAlchemy, Sequelize

**Testing Frameworks:** Pytest, JUnit 5, TestNG, Selenium, Cypress, Mocha, Chai, Jest, Postman

**Cloud Services and DevOps:** Docker, Amazon Web Services (AWS S3 buckets), Git, GitHub, GitLab, Jenkins, CI/CD

**Agile Methodologies:** Agile, Scrum, Kanban

## WORK EXPERIENCE

### INDEED \ Quality Assurance Automation Engineer \ San Francisco, CA

January 2021 – March 2023

- Initiated test automation projects for 4 job recommendation services, collaborating with teams to establish requirements and strategies, achieving an 80% test code coverage goal.
- Refactored Pytest framework using JUnit 5 and TestNG in application code, reducing tests by 20%.
- Managed release cycles on bi-weekly sprints, monitoring test automation issues and resolving deployment challenges.
- Transitioned release pipelines from Jenkins to GitLab CI/CD, enhancing efficiency and cutting build times by 30%.
- Implemented SonarQube for evaluating code coverage, managing technical debt, and improving code quality to meet the minimum of 80% code coverage.
- Oversaw code reviews for 8 engineers, providing feedback and ensuring robust unit and integration test coverage.

### INDEED \ Quality Assurance Engineer \ San Francisco, CA

August 2017 – December 2020

- Performed root-cause analysis to debug Python test automation failures, resulting in a 90% test suite pass rate.
- Automated 4 release pipelines for push-on-green, improving CI/CD and increasing team throughput velocity by 30%.
- Guided the QA team through verification processes and regression testing for 4 deployments.
- Onboarded 4 QA engineers, 1 automation engineer, and 1 QA manager to promote a shift-left testing mindset.
- Participated in weekly Python pair-programming mentoring sessions with automation and QA engineers.

## PROJECT EXPERIENCE

### YUMMYEATS \ REST APIs | Flask | AWS S3 | Google Maps API | Git | Pair Programming | Leadership

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

### BOBABUZZ \ REST APIs | Flask | Redux.js | SQLAlchemy | Wireframes

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- Designed Flask-based RESTful 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

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- Leveraged React to design responsive user interfaces and implemented 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 Web Development \ Python | JavaScript | React | Redux | Flask | SQLAlchemy

October 2023

SAN FRANCISCO STATE UNIVERSITY \ Bachelor of Science, Microbiology \ San Francisco, CA

May 2011