

# Marven Wang

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## SKILLS

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- Python, C, C#, Java, Racket, Typescript, CSS, SQL; React JS, REST API, Flask, TensorFlow, Git
- Wix Studio, Unity, React JS, Tailwind, Flask, TensorFlow, GitHub Actions
- MySQL, PostgreSQL, MongoDB, SQLite, Redis, Cassandra
- Docker, Kubernetes, AWS, Azure, GCP
- Selenium, PyTest, Jest, Mocha, Chai
- Git, GitHub, GitLab, Bitbucket, CI/CD pipelines

## WORK EXPERIENCE

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### Software Development Assistant | Apex Snow Academy Apr. 2024–Aug. 2024

- Optimized website performance, improving load times by 30% through code splitting and image compression
- Single-handedly built the backend of the student-matching system using Python and TensorFlow, achieved a 20% increase in lesson hours and 13% reduction in scheduling overflow
- Implemented the company's website using Wix Studio, JavaScript, and CSS, attracted 200+ customer enrollments
- Collaborated with UX designers to refine UI/UX, increasing user engagement by 15%

### Software Development Intern | Akare Tech Mar. 2023–Aug. 2023

- Wrote unit and integration tests covering 90% of the codebase for the car-recognition system
- Authored technical documentation and delivered training sessions to QA team on software operation

### Freelance Developer | Personal Projects Jun. 2023–Dec. 2023

- Implemented user analytics dashboards and A/B tests, boosting user retention by 18%
- Built multiple client websites using React, Flask, and Firebase; delivered 5+ projects on time

## PROJECTS & ACTIVITIES

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### Pet Optimizer | International Mathematical Modelling Challenge Apr. 2024

- Programmed an adoption recommendation engine in Python using a neural network with 91% test accuracy
- Visualized model performance metrics in dashboards for stakeholder review
- Led a team of 4 to develop a solution for the pet adoption situation across Canada for IMMC
- Co-authored project report and presented findings at university symposium

### Everything Calendar | React JS, Tailwind Oct. 2024–Present

- Implemented user authentication and profile management with JWT in Flask
- Set up CI/CD pipeline using GitHub Actions to automate testing and deployment
- Developed a website using React JS and Tailwind to build custom calendars by scraping event sites
- Planned, developed, and debugged the backend REST API in Python, optimized event scraping reliability

### Grass Allergy Relief | Personal Project Sept. 2024–Present

- Integrated logging and monitoring using Prometheus and Grafana to track usage metrics
- Automated personalized resume generation using a user-created database and job descriptions
- Conducted user interviews and iterated UI based on feedback, improving usability score by 20%
- Conducted end-to-end testing, received over 20 positive feedbacks and multiple functionality reports
- Single-handedly built a resume tailoring application in Python, generating job-targeted resumes in under 10 seconds

### Open-Source Contributor | Mozilla Foundation 2022–Present

- Contributed bug fixes and features to Firefox and Rust projects; merged 15+ PRs
- Authored documentation and migration guides for new contributors

### Personal Blog Platform | Django, React 2021

- Integrated social share APIs and implemented user authentication with JWT
- Built a full-stack blogging platform in Django with React front-end, featuring markdown support

### Hackathon Winner | Waterloo Hack Nov. 2019

- Presented demo to 200+ attendees and coordinated post-hack maintenance
- Led a 3-person team to build an AI-powered chat app in 24 hours; won Best UX

## EDUCATION

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