KEVIN (ZHENGKANG) CHEN

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About Me

PROFESSIONAL SUMMARY

Software Engineer with 2 years of experience in backend development, API integration, and full-stack design using Python, JavaScript, C++ and Java. Skilled in leading Agile projects, building scalable applications, and leveraging cloud technologies like GCP. Proactive team player with strong problem-solving abilities, dedicated to continuous improvement and driving collaborative success.

EDUCATION

University of Waterloo

Master of Electrical and Computer Engineering, Specialized in Software Engineering, GPA:83.88%

McMaster University

Bachelor of Electrical and Computer Engineering (Co-op), GPA:10.5/12, Dean's Honor List

Sep. 2023 - Sep. 2024

Waterloo, Ontario, Canada

Sep. 2018 - Apr. 2023

Hamilton, Ontario, Canada

Professional Experience

Co-Founder & Development Lead | ReactJS, Diango, Figma, Tailwind, PostgreSQL, Python Apr. 2024 - Present Galactic Innovators Group

- Collaborated with stakeholders to gather and refine requirements, translating business needs into technical specifications and actionable tasks, ensuring timely delivery using Agile methodologies.
- Led the design and implementation of an E-Commerce web application system using Model-View-Template design pattern with Django, React with Redux for state management, Figma and Tailwind CSS for UI design to create optimized user journeys, including product browsing and cart management.
- Deployed the web application on GCP Cloud Run and cloud PostgreSOL, enhancing performance and reliability while managing cost efficiency through scalable operations.

Backend Software Engineer: Contract | Flask, GCP, Git, PostgreSQL, MongoDB, Docker May 2024 - Sep. 2024 Waterloo, Ontario, Canada Pronti Al

- Designed and implemented RESTful API endpoints for mobile app using Flask, GCP, PostgreSQL, and MongoDB, contributing to a 10% increase in user engagement.
- Collaborated with frontend mobile engineer to troubleshoot Flask-based APIs, reducing APIs response time and app down time by more than 30%.
- Maintained and optimized a Multi-Layered Comparison Network (MCN) model with the ResNet-50 backbone convolutional neural network architecture for personalized outfit generation, streamlining model outputs directly to the mobile app.
- Containerized the entire backend infrastructure using **Docker**. Created Docker images, stored them in Google Cloud Storage, and utilized GCP Cloud Run to run the Docker images, enabling streamlined deployment and improved scalability for the backend services.
- Developed End-to-end testing strategies with PyTest, optimized CI/CD workflows with Google Cloud Build and GitHub Actions, and created technical documentation with Swagger, enhancing deployment efficiency, system reliability and maintainability.

Digital Automation Engineer: Internship | Python, Pandas, C, SVN, Bash, Perl The Six Semiconductor Inc.

May 2021 - Sep. 2022

Markham, Ontario, Canada

- Architected and implemented Python-based automation checkers integrated with CMake build systems, reducing error detection time by 40% and increasing team productivity.
- Enhanced data processing workflows by developing Python scripts with the **Pandas** library for automated data scraping, parsing, and correction, integrated with HTML views for data visualization.
- Optimized development operations by implementing advanced SVN version control strategies and automating deployment processes with Bash and Perl scripts using CMake.

PROJECTS

AI-powered E-Commerce Web App: Team Leader | Django, React JS, MySql

Jan. 2024 - Apr. 2024

- Conducted market analysis and user interviews to gather requirements, translating insights into technical specifications.
- Architected and developed a React and Django-based platform, implementing user-based and item-based collaborative filtering for personalized recommendations.
- Implemented **OAuth 2.0** authentication with **JWT** for secure user sessions, ensuring reliable access control.
- Engineered End-to-end automated testing using Pytest and Jest, achieving 85% code coverage and improving code quality.

SKILLS & COMPETENCIES

Programming skills: Python, JavaScript, C++, C, Java, TypeScript, ReactJS, Django, Flask, REST API, Figma, Tailwind, NoSQL, SQL, GitHub Actions, End-to-end testing, Pytest, Jest, Docker, Git, SVN, Postman, Jira

Soft Skills: Effectively communicate complex technical concepts through clear documentation and presentations, manage development tasks efficiently, apply analytical thinking to solve challenging problems and optimize code, and foster strong collaboration within cross-functional teams.