KEITH VARGAS

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SUMMARY

Software Engineer II with 3+ years of experience in full-stack development, API integration, and system automation. Passionate about building scalable and efficient systems with expertise in TypeScript, React, Node.js, Python, and cloud technologies. Proven track record of improving operational efficiency, building white-label platforms, and implementing automated validation systems. Quick learner always looking to expand skills and join teams building innovative solutions.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, C, C++
Front-end	React, Vue.js, HTML5, CSS3, Material-UI, Bootstrap
Back-end	Node.js, Flask, REST APIs, GraphQL
Database	PostgreSQL, Snowflake, PostGIS, SQL, Query Optimization
Cloud & DevOps	AWS, Azure, Docker, Kubernetes, Terraform, GitHub Actions

EXPERIENCE

Expedock   March 2022 - September 2025
Software Engineer II

· Developed and maintained REST API interfaces for seamless integration with legacy systems and third-party services, supporting high-volume data processing and reducing integration time by 40%
· Improved operational efficiency by enhancing UI/UX and implementing quality-of-life features, resulting in 25% reduction in SLA times and improved user satisfaction
· Built and deployed a white-label website platform enabling customers to provide branded services to their clients, expanding market reach and generating new revenue streams
· Spearheaded a data discrepancy detection project, implementing automated validation systems that improved data accuracy to 100% and reduced manual review time by 60%
· Automated document processing workflows for API-ingested documents, streamlining operations and reducing manual effort by 70% through intelligent routing and validation
· Collaborated with cross-functional teams to deliver scalable solutions using modern DevOps practices

MISE   February 2022 - August 2024
Backend API Developer

· Developed RESTful APIs for mobile applications using flask-smorest, enabling seamless data synchronization and real-time updates across iOS and Android platforms
· Designed and implemented database schema with PostGIS for advanced proximity search functionality, improving location-based query performance by 50%
· Built and deployed an Azure-powered Discord integration bot for internal team communication, automating workflow notifications and reducing manual coordination overhead
· Streamlined API documentation and testing processes, implementing automated testing pipelines that reduced deployment time by 30% and improved code quality

CHRG Electric Vehicle Technologies, Inc. — February 2021 - August 2021
Data Analyst

· Analyzed raw electric vehicle travel data to identify optimal charging station locations, using statistical analysis and geographic data processing to improve charging infrastructure efficiency
· Collaborated with researchers to implement data-driven recommendations for charging station placement, resulting in 30% improvement in charging accessibility for fleet operations

The Coding School (TCS) — March 2020 - February 2023
Programming Coach and Instructor

· Mentored 50+ young students in programming fundamentals and Python development, creating interactive learning experiences that improved student engagement by 40%
· Developed comprehensive learning materials and curriculum for Python programming, including hands-on projects and assessment tools used by 200+ students
· Designed and organized programming challenges for coding competitions, fostering competitive programming skills and increasing student participation by 60%

Azeus Systems Philippines Limited — July 2020 - August 2020
OJT Program

· Built a real-time collaborative documentation app with Vue.js and Socket.io, enabling multiple users to edit documents simultaneously
· Designed and implemented a responsive web application using Figma for UI/UX design, resulting in improved user experience

Samsung R&D Institute Philippines — May 2019 - July 2019
Intern, Cloud Intelligence Team

· Developed human activity recognition and classification system using computer vision, implementing heatmap visualization for activity pattern analysis and achieving 85% accuracy in real-time detection
· Implemented one-shot face detection algorithm for efficient facial recognition, reducing computational overhead by 40% while maintaining high detection accuracy across diverse lighting conditions

Nokia Technology Center, Manila — June 2017 - August 2017
Intern, 5G Feature Team

· Assisted in 5G network feature development and testing, contributing to early-stage 5G technology implementation and validation processes
· Developed internal web application for test server reservation using Ruby on Rails, streamlining resource allocation and reducing server setup time by 50% for engineering teams
· Participated in network performance analysis and optimization studies, gaining hands-on experience with telecommunications protocols and wireless communication systems

EDUCATION

University of the Philippines Diliman — *2015 - 2022*
Bachelor of Science in Computer Engineering

- 2019 Chairperson of IEEE UP Diliman Student Branch
- 2020 Vice Chairperson of IEEE UP Diliman Student Branch

National University of Singapore — *2018*
NG Student Exchange, Electrical and Computer Engineering

- Move UP Scholar