

HOANG NGUYEN

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EDUCATION

University of Massachusetts, Amherst
B.S. in Computer and Information Science

May 2019
Major GPA: 3.5/4.0

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C, C++, SQL, NoSQL, Unix/Linux, HTML5, CSS3, Bash.

Tools & Frameworks: Django, Flask, Spring Boot, VueJS, Apache Kafka, Redis, Git, Docker, Kubernetes, AWS, GCP.

WORK EXPERIENCE

Jewel Paymentech – Advance AI

(Remote) Singapore

Senior Software Engineer, One Sentry (one-sentry.com)

Nov 2022 - Present

- Developed, implemented and maintained over **5** microservices within a large-scale system to help e-merchant acquirers actively monitor their merchants for high-risk behaviors.
- Leveraged Faust streaming and Kafka's distributed architecture to scale sentiment analysis operations, successfully processing and analyzing **10,000+** of data points daily.
- Led the migration of critical microservice components from Serverless to a Django application, overcoming **challenges** such as increased data load, ensuring data integrity, and minimizing downtime, resulting in enhanced scalability and system reliability.
- Optimized database queries and schema design to handle high-volume data operations and low-latency data retrieval, reducing query execution time by **30%**.

Foxconn

Milwaukee, Wisconsin

Software Engineer, Rafiki Optimo (foxconniai.com/optimo)

Jan 2021 – Nov 2022

- Developed advanced Celery-based Job Queues that enables smart routing & scheduling, monitoring, and executing hundreds of simultaneous ML processes.
- Implemented a synchronization mechanism to back up AI models for offline usages that supports **3+** factory production lines.
- Designed a scaling mechanism with Python and Cronjobs to auto-scaling Celery workers that save **\$10,000** in development budgets.

Software Engineer, Industrial AI Institute

Dec 2019 – Jan, 2021

- Solely responsible for designing and developing the backend of Industrial AI Institute to support internal training on industrial digital transformation.
- Implemented K8s Scaling Manager in Java as a layer between backend services and K8s cluster to configure and scale containers with high reliability and performance.
- Designed test suite to optimize Test Driven Development practice that resulted in **98%** code coverage.
- Improved performance by **115%** from adjusting API gateway, reducing API calls, and optimizing SQL queries.

Break Diving, Inc.

Port Chester, New York

Software Engineer

Aug – Nov, 2019

- Created, wrote, and ran test procedures based on customer-defined system requirements for a web-based social media application.
- Performed exploratory, functional, integration, cross-platform, GUI, compatibility testing; Successfully detected and resolved **20+** software failures in production.

RELEVANT EXPERIENCE AND PROJECTS

Trail Runner Studio

Feb – Aug 2024

- Developed a web-based Django application to manage nutrition for trail runners/mountaineers, successfully providing specific plans in GPX format for **5+** trail marathons.
- Designed a Hybrid Recommender to recommend food choices during races based on ratings and nutrition similarities.