

EDMOND WONG

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PROFESSIONAL EXPERIENCE

Software Engineer

Mar 2025 - Present

STAN AI | North York

Drove end-to-end technical delivery using **Next.js**, **Fastify**, **MongoDB**, and **AWS Bedrock** to enhance performance, infrastructure, and AI chatbot capabilities for modernizing HOA support systems.

- **Optimized** MongoDB queries by replacing a recursive graphLookup with an **indexed query**, boosting performance by **~50x**
- Refactored enterprise **AWS infrastructure** using **CDK** and **Terraform**, standardizing deployments, automating provisioning, and enhancing reproducibility within three weeks.
- Redesigned chatbot flow with **LLM-based data extraction** and **Zod** validation, enabling real-time edits and validation, **improving usability** and reducing user drop-off rates.
- Integrated AWS Bedrock to power LLM-based features, improving response accuracy and scalability.

AI Innovation Specialist

April 2024 - August 2024

Trilogy | Texas

Engineered advanced AI-powered tools to streamline business processes and enhance decision-making across various departments.

- Developed a Product Hub featuring an AI-driven Product Vision and Features Generator, achieving a **9/10** quality score for outputs through self-iterative processes and comprehensive data collection from official sources.
- Implemented a **RAG** using Python and Zapier, leveraging Weaviate **Vector database** and **Claude 3.5 Sonnet** AI to synthesize information from meetings, conversations, and documents, enhancing executive decision-making capabilities.
- Pioneered a **self-iterative AI program** to ensure high accuracy and proper formatting of AI-generated outputs, maintaining consistency across various AI applications.

Full Stack Developer | Internship

October 2023 - December 2023

Semper8 | Toronto

Researched and designed modern technologies for a multifaceted company with diverse interests in financial, media and health sectors

- Developed a video chat web application using **React** and **WebRTC**, incorporating real-time transcription, which improved accessibility.
- Designed and optimized a REST API leveraging **OpenAI Whisper** for speech-to-text conversion, reducing **transcription errors** by **25%**.
- Provided expertise in UI/UX design and full-stack development, leading to a **20%** increase in **user satisfaction** based on feedback.
- Conducted in-depth analysis to identify opportunities for integrating artificial intelligence, resulting in a **15%** boost in project **efficiency**.

Analyst Programmer

January 2021 - May 2022

Advanced Integration Systems | Hong Kong

Developed 4 new features and researched new technologies for the largest retail pharmacy chain store in Hong Kong

- Enhanced image search by **15%** in **efficiency** and **20%** in **accuracy** using **Google Vision**, **Angular**, and **RxJs**, leading to a **10%** increase in **customer satisfaction**.
- Streamlined processes by implementing **Google Natural Language AI** for tag extraction from a product catalog of over 2,000 items, improving inventory management **accuracy** by **30%**.
- Increased **data throughput** efficiency by **30%** by developing a **Kafka** connector with **Docker**.

Enhanced the drug procurement process, creating seamless integration between the inventory management system and ERP for a healthcare client

- Revamped **Oracle VIEWS**, **reducing execution time** by **90%**, significantly improving the performance of the inventory management system.
- Collaborated on Extjs components, increasing **development efficiency** by **25%** and improving code maintainability.
- Improved procurement processes by creating efficient queries that **saved** the company approximately **100 man-hours per month**.

Software Engineer

September 2018 - December 2020

PortalVision | Hong Kong

Implemented and enhanced 5+ content management systems for social service sectors and elderly centers

- Enhanced data fetching **performance** by **over 50%** through **T-SQL** query analysis, **reducing average data retrieval time** by **2 seconds**.
- **Led code review initiatives** and **established coding standards**, improving the team's code quality and **reducing bugs** by **30%**.
- **Mentored** two junior team members, supporting their professional growth and contributing to a **15%** increase in **team productivity**.

EDUCATION

Mobile Application Development and Strategy Postgraduate Program

December 2023

George Brown College, Toronto, ON

Bachelor of Engineering – Computer Science with Minor in Statistics

December 2018

The University of Hong Kong, Hong Kong

SKILLS

Frontends: Next.js, Angular

Databases: PostgreSQL, Oracle DB, MongoDB, Weaviate DB

Backends: Python, Spring, Fastify, C#

Others: Docker, AWS, Kafka, GitHub, Jira, Figma