EDMOND WONG

Toronto, ON | (289) 623-3303 | edwong303@gmail.com | LinkedIn: [edwong303](#) | [Web](#)

PROFESSIONAL EXPERIENCE

Software Engineer   Mar 2025 - Present
STAN AI | Toronto

Implemented end-to-end development of a modernized **AI-powered chatbot system** for HOA support, leveraging **Next.js**, **Fastify**, **MongoDB**, and **AWS Bedrock** to enhance performance, scalability, and user interaction.
- **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**.
- 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, 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**.
- Streamlined processes by implementing **Google Natural Language AI** for tag extraction from a product catalog of over 2,000 items.
- Increased **data throughput** efficiency by **30%** by developing a **Kafka** connector with **Docker**.

Revamped and 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**.

PROJECTS

Gaming Platform Integration

Enhanced a gaming platform by adding features such as translation to improve user experience and expand gameplay options.
- Integrated games from multiple platforms using **REST APIs**, enhancing functionality, and ensuring seamless interoperability.
- Developed and maintained a responsive website utilizing **Next.js**, delivering an engaging and user-friendly experience.
- Revamped SQL queries to native queries, improving readability and **reducing errors** by **15%.**

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