ANGELA KWOK
Senior Software Engineer | Full Stack & AI/ML

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Senior Software Engineer with 11+ years building scalable, user-focused software and mentoring teams. I love solving complex problems with clean, thoughtful code and turning ideas into intuitive products. I work across full stack development with Java, React, and Node.js, and AI/ML systems using Python, TensorFlow, Generative AI, LLMs & prompt engineering. Driven by curiosity and collaboration, I enjoy creating technology that makes life and work simpler, smarter, and more meaningful.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python
Web Development & Databases: React, Next.js, Node.js, Vite, FastAPI, Express.js, RESTful APIs, HTML5, CSS3, Prisma, Supabase, MySQL, Oracle, Spring, Hibernate, OAuth / JWT
Machine Learning & AI: Generative AI (LLMs, Fine-tuning), RAG, NLP, Deep Learning, Semantic Search, Computer Vision, Supervised/Unsupervised Learning, Time Series Analysis, Reinforcement Learning
ML Workflow: Data Preprocessing, Feature Engineering, Vector Embeddings, Model Deployment, Prompt Engineering
AI/ML Libraries & Tools: PyTorch, TensorFlow, Hugging Face Transformers, LangChain, OpenAI API, Scikit-learn, Pandas, NumPy, Keras, Pinecone
Testing & DevOps: Git, Vercel, Heroku, Selenium, Robot Framework

EXPERIENCE

Majesco (acquired Global IQX in 2022) | Remote
Lead Software Engineer   JUN 2023 - PRESENT

- Lead a team of 5 engineers in developing and maintaining two core product components, ensuring reliability and timely delivery of key product releases.
- Architect scalable web applications with Java (Spring, Hibernate) and modern front-end technologies.
- Mentor junior developers through code reviews and pair programming, improving team efficiency and effectiveness.
- Define coding standards and best practices, enhancing code quality and maintainability.

Senior Software Engineer   OCT 2022 - JUN 2023

- Designed and developed a translation tool that significantly reduced localization time, enabling clients and business analysts to translate application content independently.
- Introduced automated testing using Robot Framework and Selenium, improving code quality and shortening QA cycles.
- Collaborated with PMs, designers, and QA to meet deadlines and deliver quality software.

Software Engineer   JAN 2016 - OCT 2022

- Developed and maintained high-quality web applications using Java frameworks and JavaScript.
- Implemented responsive front-end interfaces using HTML, CSS, and jQuery, improving user engagement.
- Created dynamic client-facing reports using Velocity, SpreadsheetML, and ThymeLeaf.
- Wrote and optimized SQL queries using SQL Server, Oracle, and MySQL for data access within Java applications.

Junior Software Engineer   JAN 2014 - DEC 2015
Intern / Part-Time   MAY 2012 - DEC 2013

NAV Canada | Ottawa, ON, Canada
Surveillance Engineer Intern   JAN 2012 - APR 2012

- Developed software in C/C++, XML, Qt, and Embarcadero on Linux/Windows platforms for air traffic control systems.
- Maintained and optimized QNX/Linux scripts.

EDUCATION

Fullstack Academy AI/ML Certification Program   APR 2025 - OCT 2025
Immersive AI & Machine Learning program which utilized active learning to gain proficiency in data technologies and tools including Python, Keras, and TensorFlow, and understanding of machine learning, deep learning, and data science processes.

BrainStation Software Engineering Diploma Program   FEB 2023 - OCT 2023
Intensive Software Engineering bootcamp focused on full-stack web development, covering modern technologies such as JavaScript, React, Node.js, Express, and MongoDB. Emphasized hands-on, project-based learning in front-end and back-end development, version control, and Agile workflows.

BrainStation UX Design Certification Program   APR 2019 - JUN 2019
Practical UX Design course focused on user-centered design principles, covering user research, wireframing, prototyping, and usability testing. Gained hands-on experience with industry tools such as Figma and applied design thinking to create intuitive, user-focused digital experiences.

Algonquin College Diploma Program   Graduated DEC 2013
Computer Engineering Technology - Computing Science

TECHNICAL PROJECTS

SmartChef | **Full-Stack AI Engineer** | SEP - OCT 2025 | smartchef-kappa.vercel.app
- Built an intelligent cooking assistant that suggests personalized recipes using semantic search and generative AI.
- Cleaned and embedded a large recipe dataset, indexing 13K+ recipes in Pinecone for fast vector retrieval.
- Developed a RAG pipeline combining similarity search with a language model for natural recipe suggestions.
- Implemented a FastAPI backend for ingredient queries and a Vite + React frontend for an interactive chatbot experience.
- Deployed an end to end prototype integrating data preprocessing, model development, backend API, and frontend interface.

BikeEase Analytics Series | **AI/ML Engineer** | JUN - SEP 2025 | https://github.com/angelatyk/bikeease-analytics-series
- Developed a machine learning project for BikeEase, a New York bike rental company, covering data workflows and model development.
- Performed data preprocessing, exploratory analysis, and feature engineering to uncover rental trends.
- Built regression models to forecast bike rentals and a CNN to classify images of bikes vs. cars.
- Leveraged Generative AI and prompt engineering to design and generate advertisements, highlighting how LLMs can be used for creative marketing campaigns.
- Applied Python, Pandas, Scikit-learn, TensorFlow/Keras, Hugging Face Transformers, and LangChain.

My Portfolio | **Full-Stack Engineer** | AUG 2025 | angelatyk.github.io
- Designed responsive portfolio website showcasing technical projects and skills with modern UI/UX principles.
- Implemented React and Tailwind CSS with light/dark mode toggle and smooth animations.
- Created modular, reusable components for scalability and maintainability.
- Leveraged the project as an opportunity to quickly learn Tailwind CSS while reinforcing existing React skills.
- Deployed on GitHub Pages with automated CI/CD pipeline for seamless updates.

Reconnect | **Full-Stack Engineer** | JUN 2024, Stack Five Hackathon | reconnector.vercel.app
- Collaborated in an Agile team of five to build a full-stack application aimed at strengthening company culture by providing co-workers with opportunities to find common interests outside of work.
- Developed the front end user interface using React, HTML, and Sass, ensuring a user-friendly design.
- Implemented modular backend APIs using Fastify, integrating Supabase for authentication and data storage.
- Gained hands-on experience with new technologies including Supabase, PostgreSQL, and Vercel, while adapting quickly and learning efficiently under tight time constraints.