

ANGELA KWOK

Senior Software Engineer | Full Stack & AI/ML

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Senior Software Engineer with 12+ 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, as well as AI/ML systems using Python, RAG, Generative AI, LLMs, and 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), Agentic AI, 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

Immersion 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

TinyTutor | Full-Stack AI Engineer | NOV - DEC 2025

- Built an agentic AI system that converts complex topics into safe, age-appropriate educational audio.
- Designed a multi-agent pipeline (Pedagogy → Scriptwriter → TTS) using structured prompts and schema-validated outputs.
- Applied prompt engineering to enforce pedagogical constraints, controlled vocabulary, and narration-ready pacing.
- Deployed multi-agent workflows on Google Vertex AI Agent Engine for scalable orchestration.
- Integrated Google Cloud Text-to-Speech to generate natural, segmented audio for early learners.
- Extended the Pedagogy Agent into a Discord bot for real-time explanations and are developing a full React application for a complete product experience.

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 create marketing content using LLMs.
- Applied Python, Pandas, Scikit-learn, TensorFlow/Keras, Hugging Face Transformers, and LangChain.

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.