Brandon Kong

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SKILLS

Coding Languages Golang, Python, TypeScript, Java, JavaScript, C, C++, SQL, NoSQL, HTML, CSS Frameworks Next, React, Express, Langchain, TensorFlow, PyTorch, OpenCV, Scikit-learn

Tools OpenAI, AWS, Kubernetes, MongoDB, Supabase, Git, Bash, WSL, VS Code

WORK EXPERIENCE

Kisoji Biotechnology

AI Engineer | Python, Pytorch, FastAPI

May 2025 - Present Toronto, ON

Work on AI-enabled generative models to analyze antibody sequence data, support paratope fingerprinting, and assist in lead candidate optimization within KisoJi's proprietary antibody discovery platform.

Adanomad Jan 2025 - Apr 2025

AI Full Stack Software Engineer | Python, TypeScript, OpenAI, Next.js, Supabase Hamilton, ON

- Built a WebSocket-based UI for real-time call handling, optimized requests with concurrent pooling, handling up to 200 simultaneous users.
- Designed and implemented a RAG+LLM solution, automated workflows and reduced latency by 80%.
- Integrated a dynamic agentic tool system using LangChain and RESTful architecture, enabling Al agents to interact with external services like DALL-E and Gemini.

UW Visual Image Processing Lab

Software Developer | Python, C++, CLI, .NET

May 2024 - Aug 2024 Waterloo, ON

- Optimized a region growing and edge penalty-powered image segmentation tool, increasing classification accuracy by 20%.
- Developed Python preprocessing scripts, boosting application speed by 200%.

PROJECTS

Neural Net | Python, NumPy

Built a fully functional neural network from scratch using only NumPy, capable of classifying MNIST digits with high accuracy, implementing forward propagation, backpropagation, and optimization.

JARVIS | Python, SQLite

- Deployed a Python-based **AI agent** with context-aware learning, enabling adaptive responses.
- Integrated RAG to provide intelligent, real-time responses, enhancing customer engagement and optimizing user experience through continuous learning.

ClassiMail • Python, Flask, Next, OpenAI, SQLite

- Built a full-stack Gmail classifier to categorize job-related emails using OpenAI models with real-time filtering and sender extraction.
- Used **image embeddings** to increase knowledge base, enabling enhanced context awareness.

EDUCATION

Honours Bachelor of Computer Engineering 2028

- Relevant Courses: Digital Computers, Linear Algebra, Algorithms and Data Structures