William Kim

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EDUCATION

University of Pittsburgh   **Pittsburgh, PA**
Bachelor of Science in Computer Science   April 2024

PROFESSIONAL SUMMARY

Applied AI Engineer with experience **designing, deploying, and scaling AI/LLM-powered systems** across web, mobile, and cloud. Skilled in **RAG, OCR, LLM integration, and multi-provider inference** (OpenAI, Azure, Claude, Ollama). Strong foundation in **Python, SQL, and cloud-native microservices** with a proven record of delivering **production-grade ML pipelines** that balance startup speed and enterprise reliability.

RELEVANT EXPERIENCE

Founder & Lead AI Engineer   **Barrington, IL**
Self-Launched AI Applications   May 2023 – Present

- **AI Research Copilot (Enterprise-Ready Doc-Chat System)**
  - Built provider-agnostic RAG pipeline using **FastAPI + pgvector + OpenAI/Ollama**, enabling semantic retrieval and LLM synthesis across documents.
  - Deployed backend on **Render** with recruiter-facing frontend on **Vercel**, secured via API proxying and provider switching.
  - Delivered an **enterprise-extensible architecture** with embeddings, scalable search, and modular orchestration.
- **Claude AI Financial Modeling Assistant**
  - Developed an AI-driven modeling platform for **scenario-based forecasts, valuations, and sensitivity analyses**.
  - Bridged technical and business stakeholders by combining **structured numeric reasoning** with natural language explanations.
  - Reduced financial model iteration cycles by **~40%**, improving decision-making speed.
- **SplitChamp AI (Cross-Platform Bill Splitting App)**
  - Engineered consumer finance app (**Expo/React Native + FastAPI**) integrating **Azure Document Intelligence + GPT-4/5** for OCR-based bill parsing with **95%+ accuracy**.
  - Applied post-processing (deduplication, heuristics, tax/tip reconciliation) → boosted parsing **F1 score by 20%**.
  - Implemented **CI/CD with Expo EAS**, reducing release rollout time from **2 days to 2 hours**.

Athletico Physical Therapy   **Lake Zurich, IL**
Physical Therapy Aide   October 2024 – Present

- Supported therapists with workflow optimization for 20+ patients daily, improving throughput by 15%.

SKILLS & CERTIFICATIONS

Languages: Python, SQL, C++, Java, JavaScript/TypeScript, HTML/CSS
AI/ML: PyTorch, Hugging Face, ONNX, GPT-4/5, Claude, Ollama, Azure AI, OCR (Tesseract/OpenCV), Scikit-learn
Cloud & MLOps: AWS, GCP, Docker, Render, Vercel, Supabase, CI/CD pipelines, Git/GitHub, Linux/Unix
Frameworks: FastAPI, React Native, Expo, Next.js, TailwindCSS
Certifications: *Azure Fundamentals (in progress)* | *AWS Solutions Architect – Associate (upcoming)*

INTERESTS

Competitive athlete — daily **4 AM training** in swimming, gymnastics, and weightlifting demonstrates discipline and resilience.