

William Kim

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EDUCATION

University of Pittsburgh

Bachelor of Science in Computer Science

Pittsburgh, PA

April 2024

PROFESSIONAL SUMMARY

AI Engineer & CS graduate experienced in building and deploying ML-powered applications. Skilled in **PyTorch (model training & ONNX export)**, **LLM orchestration (GPT-4/5)**, and **OCR pipelines (Azure Document Intelligence, OpenCV)**. Proven ability to scale **FastAPI/AWS backends** to thousands of daily users and deliver production apps to the **Chrome Web Store** and **Google Play**. Adept at combining AI research with real-world software engineering to ship tools that improve productivity, finance, and wellness.

PROFESSIONAL & TECHNICAL EXPERIENCE

Founder & Lead AI Engineer

AI Engineer (Independent Projects)

Barrington, IL

May 2023 – Present

- Built AI apps (GhostTab AI, SplitChamp AI) using OCR, GPT-4/5, and Azure AI for productivity and finance.
- Engineered backends (FastAPI, Supabase, AWS, Docker) with auth, RBAC, and Stripe/RevenueCat billing.
- Shipped end-to-end solutions (Chrome extension, mobile apps) with CI/CD; in progress: PyTorch → ONNX classifier for client-side ML.

Athletico Physical Therapy

Physical Therapy Aide

Barrington, IL / Lake Zurich, IL

September 2020 – August 2021; October 2024 – Present

- Supported therapists with patient setup and protocols, improving treatment throughput by 15%.
- Coordinated care flow for 20+ patients daily, ensuring safety, efficiency, and positive patient experience.

PROJECTS

SplitChamp AI – Expo/React Native · Python · FastAPI · Azure OCR · GPT-4o/5

- Built a mobile app that parses receipts with **Azure Document Intelligence/Vision + GPT-4o/5 pipelines** for structured expense breakdowns.
- Designed a **Python OCR + FastAPI backend** with advanced post-processing (*deduplication, category heuristics, tax/tip reconciliation*).
- Productionized mobile app with CI/CD pipelines and Expo EAS**, ensuring stable releases on Google Play.

GhostTab AI – Chrome Extension · Azure OpenAI · GPT-4/5 · (*roadmap: PyTorch → ONNX*)

- Developed a Chrome extension with **OCR-based text capture** and **Azure OpenAI summarization/rewriting** to enhance productivity.
- Added **adaptive tab limits, Pomodoro timers, and contextual AI coaching**, improving focus and study efficiency.
- Trained PyTorch models and exported to ONNX**, enabling **real-time webpage categorization** with `onnxruntime-web`.

SKILLS & CERTIFICATIONS

Skills: Python · PyTorch · GPT-4/5 Integration · OCR (OpenCV/Tesseract) · FastAPI · AWS/Docker · React/React Native

Certifications: Databricks Generative AI Fundamentals · Databricks AWS Platform Architect · PMI Generative AI Overview · Azure AI Engineer Associate (in progress)

INTERESTS

Competitive athlete — 4 AM daily training in swimming, gymnastics, and weightlifting shows discipline and focus