# William Kim

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## EDUCATION

**University of Pittsburgh**                                                                                                          **Pittsburgh, PA**
Bachelor of Science in Computer Science                                                                                       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 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**                                                                                                    **Barrington, IL**
*AI Engineer (Independent Projects)*                                                                                          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**                                                                              **Barrington, IL / Lake Zurich, IL**
*Physical Therapy Aide*                                                            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 post-processing (deduplication, category heuristics, tax/tip reconciliation).
- Deployed production builds to Google Play via Expo EAS with Pro features (Stripe/RevenueCat billing, feature flags, entitlement checks).

**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.
- Added adaptive tab limits, Pomodoro timers, and contextual AI coaching to improve focus and study efficiency.
- Training and exporting a PyTorch classifier → ONNX for client-side inference with onnxruntime-web, enabling real-time webpage categorization.

## 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 demonstrates discipline, resilience, and focus.