

# William Kim

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## PROFESSIONAL SUMMARY

Software Engineer experienced in building full-stack applications, distributed data workflows, and AI-powered automation systems across web and cloud environments. Strong in backend API development, system architecture, and transforming complex requirements into production-ready features. Skilled in Python, TypeScript/React, cloud deployment, and LLM-driven tooling, with additional experience in Java, C++, and C# for systems-level and object-oriented development.

## SKILLS

**Languages:** Python, TypeScript/JavaScript, SQL, Java, C++, C#

**Backend:** FastAPI, Node.js, Postgres, DuckDB, Redis, Docker

**Frontend:** React, Next.js, Expo/React Native, Tailwind CSS

**Cloud:** GCP Cloud Run, AWS, Azure, Vercel, CI/CD

**ML/AI:** OpenAI/Azure AI, embeddings, RAG, HuggingFace, LoRA/PEFT

**Tools:** Git/GitHub, REST APIs, data pipelines, system design

## PROJECTS

### LLM Orchestration Engine — AWS-Inspired Multi-Model Routing System

- Built an LLM orchestration backend that routes requests across OpenAI, Azure, local ONNX models, and a mock AWS Bedrock provider based on latency, cost, and task type.
- Implemented real-time observability with p50/p95 latency metrics, provider distribution, error tracking, and estimated cost per request.
- Designed the architecture using AWS patterns (API Gateway → Lambda-style routing → DynamoDB-style logs → CloudWatch-style metrics) with a Dockerized backend and Vercel dashboard.

### DataOps Copilot — AI Data Profiling & Quality Tool

- Built a backend service to ingest CSV/Excel/JSON, perform type inference, anomaly detection, and schema profiling at scale.
- Implemented multi-provider LLM routing (OpenAI, Claude, Gemini) to generate structured insights and summary reports.
- Deployed containerized FastAPI backend to Cloud Run using Postgres + DuckDB for fast, columnar analytics; built the React/Next.js front-end for interactive exploration.

### ClaimsInvestigator AI — Insurance Claims Analysis Assistant

- Engineered a reasoning engine that converts messy FNOL narratives + policy JSON into structured investigation plans.
- Developed REST APIs that generate tasks, summaries, and next-step recommendations using configurable LLM providers.
- Built modular components supporting multi-provider prompts, output formats, and reusable templates for claims analysis.

## EXPERIENCE

### Athletico Physical Therapy

Barrington, IL / Lake Zurich, IL

#### Physical Therapy Aide

September 2020 – August 2021; October 2024 – Present

- Supported daily operations in a high-volume clinical environment, maintaining accurate documentation and scheduling workflows.
- Communicated effectively with cross-functional teams and assisted 20–50+ clients per shift.

## EDUCATION

### University of Pittsburgh

Pittsburgh, PA

Bachelor of Science in Computer Science

April 2024

## INTERESTS

Competitive gymnast — active competitor; daily 4 AM training demonstrating discipline and resilience.