

Sanghyup “Shawn” Lee

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EDUCATION

Johns Hopkins University

Bachelor of Science in Computer Science, GPA: 3.89/4.0

May 2026

Baltimore, Maryland

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, Rust, JavaScript, Dart, Go, SQL

Frameworks: React, Flutter, Node, Express, Django, FastAPI, Pytorch, LangChain, Celery

Tools: Docker, Redis, Supabase, Firebase, Render, GCP, Github, Jest, Cypress, ESLint, Prettier

Databases: MySQL, PostgreSQL, MongoDB

EXPERIENCE

Oracle

Software Developer Intern - UX Applications

May 2025 – August 2025

Redwood City, California

- Built an AI-powered agent using Ollama local LLM to enable natural language search across internal code libraries, significantly improving developer productivity.
- Developed a chat agent interface using Oracle Visual Builder with JavaScript and backend services in Python and Go, streamlining the user workflow across the tool.
- Achieved a 60% increase in query accuracy by replacing basic prompt engineering with an automated prompting system powered by DSPy and Instructor, leading to more precise information extraction.
- Enabled smart tag search covering 326+ component tags with additional standard HTML tags with specific attributes.

NooriAI

Co-Founder

February 2025 – Present

Baltimore, Maryland

- Co-founded a healthcare startup developing a HIPAA-compliant neural machine translation system for translating complex medical terminology to assist Limited English Proficient patients.
- Achieved a BLEU score of 37–40 using MarianNMT, OPUS datasets, and web-scraped medical corpora, under the guidance of Dr. Philipp Koehn.
- Integrated OpenAI Whisper and VOSK for multilingual speech-to-text transcription, enabling real-time patient-clinician translation.
- Finalist at HopStart and participant in JHU Spark and other accelerators, securing \$1,000 in early-stage funding.

Samsung SDS

Software Engineering Intern

June 2024 – August 2024

Seoul, South Korea

- Applied Few-Shot Prompting, Prompt Chaining, and Chain of Thought prompting to utilize RAG using Python and LangChain, raising AI chatbot response accuracy from 50% to 70%.
- Curated 200+ sample datasets for API integration, improving model training and increasing real-world applicability.
- Generated 100+ Hugging Face vector embeddings and applied cosine similarity search to optimize query augmentation accuracy.

PROJECTS

Summit | summit-jobs.com | React, Supabase, Render, GCP, Redis, Celery

January 2025 – May 2025

- Built a scalable email processing system using Celery, Redis, and Django REST Framework to extract job-related data from Gmail and extract key information with 92.6% precision, automating job tracking directly from users' inboxes.
- Integrated a DistilBERT-based email classifier to filter out irrelevant emails with 96.5% accuracy, cutting the OpenAI token usage and reducing response latency by 40
- Automated Gmail API token refresh and subscription management via GCP Pub/Sub and Celery Beat, ensuring a reliable, always-on email ingestion pipeline.
- Created a semantic search chatbot over 15K+ job postings using OpenAI embeddings and Supabase pgvector, providing users with personalized job recommendations in real time.
- Set up a robust CI/CD pipeline with Docker and GitHub Actions, enabling rapid testing and deployment with tools like Jest, Cypress, Prettier, and ESLint.