

Wilson Weng

Software Engineer

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 github.com/vvils

 wils.vercel.app

Education

Cornell University, College of Engineering (COE) Ithaca, NY

B.S. Computer Science

GPA: 3.7, Dean's List

Graduated May 2025

Technical Skills

Programming Languages: Python, Java, HTML/CSS/Javascript/Typescript, C, Rust, SQL

Frameworks & Tools: Django, Django Rest Framework, Flask, React, Next.js, React Native, Expo, Express, Node, Tailwind, GCP, AWS, Azure, Postgres, MongoDB, Docker, K8s, D3.js, Git, Agile, CI/CD, AI Agents

Experience

Founding Engineer / Full Stack Mobile and Python Developer

Jan 2025 - Present

Spot Social - Dallas, TX

- Spearheaded end-to-end platform development as full-stack technical lead, building a **React Native/Expo** mobile application deployed to both **App Store** and **Google Play Store**
- Developed robust **Django/DRF** backend featuring real-time **WebSocket** chat, **Celery** workers for asynchronous image/video processing, and **Stripe Connect** and **PayPal Payouts** integration enabling an in-app wallet system with instant withdrawals
- Architected **AWS** cloud infrastructure including **EC2** instances running **Dockerized** services, **Nginx**, **RDS PostgreSQL**, **S3** for media storage, and **Glacier** for cold storage of inactive video content
- Designed and implemented a dynamic credit score algorithm using a hierarchical weighted-sum model with exponential time-decay, sigmoid-bounded sub-factors, and extensible architecture
- Optimized query patterns achieving **2x API response time improvements** through strategic **Redis** caching via **ElastiCache**

Full Stack Developer Intern

Oct 2024 - Jan 2025

Yoda Labs AI - Remote

- Developed **AI agents** using **LangChain** and **OpenAI APIs**, implementing **RAG** with **Chroma vector database** for context-aware responses while minimizing costs
- Architected back-end services with **Django** and **MySQL**, ensuring seamless data flow and performance
- Engineered dynamic and responsive front-end interfaces using **React** for a platform that transforms lectures into notes

Software Development Engineer Intern

May 2023 - August 2023

Amazon/AWS - Seattle, WA

- Developed and enhanced front-end interfaces for a critical **AWS** monitoring product serving thousands of customers, improving usability and navigation efficiency by **20%**
- Implemented scalable components using **React.js** and **AWS Amplify**, reducing page load times by **15%** on high-traffic monitoring dashboards
- Optimized **API** data rendering to enable real-time system health metrics, supporting over **1M monthly active sessions**
- Collaborated cross-functionally with designers and backend engineers to deliver consistent user flows