Peter Shin

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Skills

Languages: Typescript, C#, Python, SQL, PostgreSQL, Javascript, Go, Java
Frameworks/Libraries: React, Next.js, Express.js, Node.js, .NET,
Technologies: Elasticsearch, AWS, GCP, FastAPI, Kafka, Websockets

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Experience

CoStar Group | Software Engineer, Full Stack | Richmond, VA   July 2023 – Present
- Built a developer-focused **AI agent orchestration** system to host modular **MCP servers** and an enterprise **embeddings API** to support internal **RAG applications** that facilitate AI-powered research and CRM productivity.
- Led the development of a public-facing scheduling interface written in React that plays a key role in a feature launch for Homes.com generating **$40M+ in revenue**.
- Led and built an extensible event mediator service in C#/.NET, leveraging AWS SQS for asynchronous processing and handling millions of requests, serving as a key component of a new Homes.com feature which drove **all-time-high premium member retention**.
- Designed and deployed C# and Typescript SDKs to generate and maintain templated, scalable ETL workflows in backend systems. Used by **30+ teams**, achieving an average of **80% reduction of database resource utilization** and **75% quicker data retrieval**, while saving weeks of development efforts.

Amazon Web Services | Software Development Engineer Intern | Arlington, VA   May 2022 – Aug 2022
- Leveraged multiple AWS cross-domain services to create a new product prototype.
- Built and demonstrated a POC that addresses a common customer need to quickly and safely source files in repositories located in lower security domains.
- Utilized Python and Typescript to model and deploy AWS infrastructure.
- Architected the solution leveraging multiple AWS services, including S3, Lambda, and API Gateway.
- Wrote XML schema definitions for generic customer-use cases to streamline onboarding new clients.

Education

Bachelor of Science in **Computer Science**, Minor in **Data Science**   May 2023
University of Virginia, Charlottesville, VA

Projects

LLM CLI Personal Assistant | https://github.com/PeterShin23/MyAssistant   Jun 2025
- An LLM-Powered CLI Tool that can record your screen and mic to act as your personal assistant and predict your needs with configurations to optimize experience.
- Conversation context stored per CLI session window.
- Learned Go and used OpenAI's GPT-4o model and Whisper API for text, image analysis and audio transcription.

theshowcase.me/peter.shin | https://github.com/PeterShin23/LazyShelf   Dec 2024 - Present
- Previously deployed using AWS Elastic Beanstalk, demo available here https://tinyurl.com/yf6hvufm
- Built a photography portfolio web application enabling users to showcase their Instagram content by integrating Meta's Instagram Graph API for seamless login and media retrieval.
- Developed the frontend using React with TypeScript and implemented backend services in Python.
- Deployed a serverless REST API using AWS API Gateway, Lambda, S3, DynamoDB, and CloudWatch.
- Automated user access token rotation using Goroutines to ensure uninterrupted API access.