Stephen Shamaiengar

in: sshamaiengar
Ω: sshamaiengar

s.shamaiengar@gmail.com
Seattle, WA
757-746-7888

EXPERIENCE

Microsoft, Azure Networking   Seattle, WA/Remote
Software Engineer II   *Sep 2023 - Present*

- Partnered with product and engineering teams to design and deliver features in C++ for redesign of networking control plane
- Leveraging internal publisher-subscriber system, delivered support in new control plane for a customer-facing product generating $400M+ in annual revenue
- Spearheaded design and implementation of new C# microservice, including an extensible state machine-based framework to facilitate future development and maintainability.

Software Engineer   *Aug 2021 - Sep 2023*

- Drove end-to-end lifecycle of features/fixes in C++ for a software component running on 3M+ machines globally
- Implemented batch processing of requests, enabling >2x greater throughput and >30% lower latency per request under high load

Software Engineer Intern   *May - Aug 2020*

- Designed and implemented a chat bot in Python to streamline the investigation of health metrics for networking hardware. Trained and deployed Azure ML model to enable natural language interaction. Deployed the bot on Azure and distributed it through Microsoft Teams to 500+ team members.

EDUCATION

University of Virginia (UVA)   Charlottesville, VA
B.S. Computer Science + Cognitive Science   *May 2021*

- **Relevant Coursework**: Internet-Scale Applications, Artificial Intelligence, Adv. Software Development, Operating Systems, Algorithms, Machine Learning

PROJECTS

Six Degrees of Spotify (Personal)

- Developed a Python backend to identify the shortest path in a graph of artists using Spotify's Related Artists API
- Implemented concurrent API requests using asyncio and caching of graph search results using Redis, decreasing median response time by 99%
- Created React frontend enabling users to enter any two artists and explore the related artists connecting them, complete with artist images and song previews from Spotify API.

E-Consignment Store (Coursework)

- Led a team developing an e-commerce platform powered by a four-tier service-oriented architecture using Django/Python apps in Docker containers
- Designed data models and relationships for key entities, including users, items, and reviews
- Created custom authenticator model and microservice for user authentication and sessions

SKILLS

Proficient: C#, C++, Python, JavaScript // gRPC, Azure, React, Django
Familiar: Java, Swift, C // Docker, Redis, NumPy