Sahand Amini

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Summary

Full-stack developer with 5 years of professional experience working on backend systems. Experienced with React, Next.js, and Astro on the frontend and Java/Spring/SQL on the backend. DevOps experience with Docker/Terraform/AWS.

Skills

Languages: Java, C#, JavaScript, TypeScript, SQL, HTML, CSS, Bash
Frameworks: Spring Boot, JUnit, React, Next.js, TanStack Start, Astro, Node.js, Tailwind CSS, Playwright, Vitest, ASP.NET
DevOps: AWS, Docker, Terraform, Jenkins, GitHub Actions, Cloudflare Workers
Tools & Technologies: Git, Kafka, REST APIs

Experience

JPMorgan Chase — Wilmington, DE
Software Engineer — *Nov 2024 – Present*

- Contributed to greenfield development of an event-driven microservice system for the collections platform, replacing a 10-year legacy application using Java, Spring Boot, PostgreSQL, AWS, Kafka, Terraform, Docker, and JUnit
  - Enhanced infrastructure by implementing full test suites for 1M+ test cases, blue-green pipelines, fixing multi-region functionality, and general improvements/modernizations
  - Led time-critical recovery of 50,000+ Kafka events in 4 hours following a production outage and message retention expiration; developed Python replay automation and reconciled events using Splunk and audit records, mitigating escalating data consistency risks from incoming transactions

Ochsner Health — New Orleans, LA
Software Engineer — *Nov 2021 – Nov 2024*

- Built and owned the C# backend for Ochsner Digital Medicine's enrollment portal
  - Onboarded 20,000+ Ochsner patients and multiple partner companies
  - Sole backend engineer for the portal, responsible for system design, implementation, testing, and deployment
  - Built test suites for the app and portal with 100% coverage, reducing QA time from days to minutes
- Spearheaded backend development for Inhaler Tracking, achieving first-ever FDA-approved device in company history
- Unified two C# projects, Aging At Home & Connected Home, into new app Connected Living
  - Restructured a 5,000+ LOC controller file into 90+ modular controllers, migrated from ASP.NET MVC to Web API

American Express — Phoenix, AZ
Software Engineer Intern — *Summer 2019 & 2020*

- 2020: Developed a Node.js service that abstracted multiple REST APIs into a unified GraphQL endpoint
- 2019: Updated Kubernetes microservices to populate necessary static & dynamic HashiCorp Vault secrets

Arizona State University — Tempe, AZ
Teaching Assistant — *Aug 2018 – Dec 2018*

- Supported 250+ students in the intro Java course through tutoring, labs, and review sessions

Scientific Software Engineer, HPC — *May 2018 – Aug 2018*

- Improved molecular dynamics simulation benchmarks by 31%+ with MPI & OpenMP; presented at PEARC (NIH-funded)

Projects

Skin Groove — *skingroove.studio*

- Built a website for a virtual esthetics practice with Astro, Tailwind CSS, Cloudflare Workers, and Cal.com booking

Portfolio — *sahandamini.com*

- Developed personal website using Astro, TypeScript, Tailwind CSS, Cloudflare Workers, PostHog, Playwright, and Vitest

Education

Arizona State University — Tempe, AZ
*B.S. in **Computer Science**; GPA: 3.43/4.0* — *Aug 2017 – May 2021*

- **Capstone**: Publication Repository for NASA JPL's Psyche Mission
  - Built a searchable archive of Psyche Mission papers in a six-member team using MongoDB, Express, React, and AWS S3
- **National Merit Finalist**: Received full-ride scholarship to Arizona State University
- Studied abroad in Barcelona, Spain during Fall 2019 semester