

Riyad Shauk

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Professional Summary

Backend & Full-Stack SWE with 5 years of experience. Proficient in TypeScript, Next.js, React.js, and utilizing cloud services to solve business problems. Strong collaborator passionate about building robust, impactful and innovative software solutions.

Projects

AI Coach | January 2025 – Present

Tech Stack: TypeScript, Next.js (React.js), OpenAI API (GPT-4), Vector Database, RAG, Prisma

- Built an AI coaching app using GPT-4 utilizing a vector database for contextual conversation retrieval.
- Implemented Retrieval-Augmented Generation (RAG) to improve AI responses based on user history.
- Adapted AI coaching strategies through system prompts tailored to user progress and historical interactions.

Work Experience

Senior Software Engineer

A-Mark Precious Metals – Remote (El Segundo, CA)

2023 – June 2024

Tech Stack: C# .NET Framework, Pub/Sub architecture via Azure ServiceBus

- Upgraded on-prem data transfer layer of .NET Framework web app to Azure ServiceBus, enhancing maintainability.
- Introduced functional tests for Azure ServiceBus, improving system robustness and coverage.
- Integrated changes into Windows services and front-end portal, ensuring seamless functionality across C# codebase.
- Removed obsolete dependencies, migrated to internal NuGet feed via CI/CD, streamlining dependency management.
- Verified and debugged front-end application to ensure a smooth user experience post-upgrade.
- Created deployment scripts and instructions & developed a comprehensive production cut-over timeline as a Gantt chart.

Backend Software Engineer II

Dr. Squatch – Remote (Marina del Rey, CA)

2021 – 2023

Tech Stack: TypeScript + AWS / Serverless

- Built and owned back-end microservices and APIs for various business use cases within post-order processing.
- Connected custom delivery data with Klaviyo to support personalized email campaigns.
- Conducted dynamic order insert retention experiments to improve customer retention.
- Developed a Slack-integrated observability service, reducing errors from 100s/day to ~3/week in production order processing.
- Utilized Shopify GraphQL APIs, Recharge Subscriptions REST API, SQL, and Serverless Framework in TypeScript.
- Executed tasks using serverless infrastructure: AWS Lambda, SQS Queue, EventBridge, SES, DynamoDB.
- Scripted through hundreds of thousands of orders to automate and fix issues, saving significant manual effort.
- Collaborated cross-functionally with Fulfillment and CX teams to ensure smooth project execution.

Software Engineer I

Principle Development Group Consulting (PDGC) – Remote (Los Angeles, CA)

2020 – 2021

Tech Stack: Go, Java Spring Boot, MySQL/Hibernate, Kafka, Couchbase

- Collaborated on a team of 7 engineers to migrate DirecTV systems from Java + REST + SQL to Go + streaming + NoSQL.
- Used Kafka to scale ingestion of 3M guide listings, 200K programs, and 200K celebrity records for data mapping and delivery.
- Developed extensive unit testing suites for both Golang and Java Spring Boot services (including mocking).
- Upgraded and deployed Go/Java microservices in production.
- Created a Go microservice for XML/JSON set-top-box features supporting remote booking.

Cloud Full Stack Developer / Solution Engineer

Oracle – In-Person (Santa Monica, CA)

2018 – 2020

Tech Stack: TypeScript, Python, React

- Built POC applications showcasing Oracle Cloud capabilities, integrating services using TypeScript, Python, and React.

Video Genome Project – In-Person (Santa Monica, CA)

NodeJS Software Developer Intern

Summer 2015, Summer 2016

- Developed and deployed code for web scraping and ETL, optimizing data pipelines for a B2B movie analytics platform.

Skills

- **Languages:** TypeScript, JavaScript/Node.js, Go, C#, Java, Python, BASH (CLI tools), PowerShell, some Rust
- **Frameworks:** React.js (HTML, CSS) + Next.js, Jest, Prisma, Nest.js, Express
- **Data Systems:** SQL, NoSQL, Kafka, SQS Queue, DynamoDB, AWS Lambda, Kubernetes, MongoDB, PostgreSQL, Redis
- **Concepts:** OOP, SOLID, Caching, System Design, Gen AI (RAG, Prompt Engineering, Vector Databases)

Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Math and Computer Science (December 2017)

Certificates

- Triplebyte Certified SWE Generalist
- Oracle Cloud Infrastructure 2018 Certified Architect Associate