

Riyad Shauk

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Professional Summary

Backend & Full-Stack SWE with 5 years of experience. Skilled in TypeScript (Node.js), 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 (Node.js), Next.js (React.js), OpenAI API (GPT-4), Vector Database, RAG, Prisma

- Built an AI coaching web-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 (Node.js) + 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 (Node.js), 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