# 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 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 + 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