

RAHUL RAIYANI

Full-Stack Engineer

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WORK EXPERIENCE

Barracuda Networks (acquired Evo Security, July 2026)

Software Engineer 1 | September 2025 - Present

Ruby on Rails, Vue 3 / TypeScript, C# / .NET, Go, PostgreSQL, Redis, RabbitMQ, gRPC, Kubernetes

- Architected and shipped a catalog-driven security policy engine across **4 services and 3 languages** (Rails API, Vue/Nuxt portal, C# gRPC service, Windows agent), replacing 17 hardcoded rule types stored as untyped JSON with **37 typed settings** resolved over a **6-level precedence hierarchy**; cut core resolution logic **61%**.
- Added same-level conflict detection, value provenance tracing, and dry-run preview diffs to resolution, then ran legacy and new engines side by side behind a **per-account feature flag** to cut customers over individually with instant rollback.
- Sole designer and author of a **role-based access control system** - normalized 5-table schema, REST API, and Vue admin UI - covering **104 permissions across 36 categories** with 12 built-in roles and custom role authoring; authored **100% of its models & controllers, business logic, and UI/UX**.
- Migrated the platform's authorization layer with **zero downtime** by routing all **346 permission checks across 218 files** through one feature-flagged validator with a 40-entry legacy compatibility map, and replaced a row-per-permission schema with a three-tier grant model that cut rows for an all-access role **63%**.
- Built the event-driven policy distribution path - Rails publishes over **RabbitMQ**, a .NET 9 service re-evaluates precedence and caches per-user snapshots in **Redis**, and resolved configuration streams to Windows agents over **gRPC**; separately cut Microsoft Entra ID sync round-trips **20x** by batching Graph group validation.
- Eliminated an N+1 holding a policy endpoint at a **constant 4 queries instead of 570** at 50 records, swapped a per-request scan of the agent-activity table for one batched Redis read (**O(history)** to **O(1)**), and drove authorization queries to **zero on cache-warm requests** via version-stamped caching and request-scoped memoization.
- Shipped 12 idempotent, dry-run-capable data migrations and authored **291 backend test files** (~27,000 lines).

Technopath Services

Data Engineer Intern | May 2024 - August 2024

Azure Data Factory, SQL, Python, ETL, Monitoring

- Built and maintained scalable Azure Data Factory pipelines automating ingestion from multiple sources, validating and transforming data with Python and SQL to improve accuracy and reliability **~30%**.
- Implemented monitoring and troubleshooting with Azure Monitor and Log Analytics, and delivered documented APIs and data services.

Evolution Health Group

Software Development Intern | June 2022 - December 2022

AWS (IAM, Transfer Family, S3), ReactJS, SQL Server, JUnit

- Built RESTful APIs and SQL Server-backed services powering ReactJS applications used by **100+ business users**; wrote JUnit tests to reduce production issues.
- Managed and optimized the company's AWS infrastructure (IAM, S3, Transfer Family), reducing redundancies by **25%**.

PROJECTS

- **COVID-19 Data Pipeline** (Personal, 2024) - End-to-end pipeline in Python and Azure Data Factory forecasting COVID-19 trends at **85%+ accuracy** (pandas, NumPy), with REST endpoints feeding Tableau dashboards.
- **JavaDB** (Team, 2023) - Lightweight database system built with a team of 5 supporting querying, CRUD, sorting, and pagination; refined indexing and sorting logic to cut lookup times.

SKILLS

Languages - Ruby, Python, TypeScript/JavaScript, C#, Java, Go, SQL

Backend - Ruby on Rails 8, .NET 9, Node/Express, gRPC, REST APIs, microservices

Frontend - Vue 3, Nuxt 3, Vuetify, TanStack Query, Pinia, ReactJS

Testing & Practices - RSpec, JUnit, Selenium, feature flags, zero-downtime migrations, Agile/Scrum

Data - PostgreSQL, SQL Server, Redis, memcached, RabbitMQ, MongoDB, data modeling

Cloud & DevOps - AWS (EKS, IAM, S3), Azure (ADF, SQL), Kubernetes, Helm, Docker, CI/CD (GitHub Actions)

Identity - SAML/SSO, RADIUS, LDAP, MFA, Microsoft Entra ID / Graph API

Certifications - Microsoft Azure Fundamentals (08/09/24)

Spoken - English, Hindi, Japanese

AWARDS

Apple WWDC Scholarship (2019) - Retropoint, a 2D iOS game in Swift and SpriteKit; selected among 350 worldwide.

Best Beginner Hack, Meet & Hack (2022) - Cinedle, a Wordle-style movie guessing game (Discord API + Python).

EDUCATION

Bachelor of Science in Computer Science & Applied Modern Language: Japanese

Rochester Institute of Technology | Rochester, New York | May 2025 | GPA: 3.8 | Magna Cum Laude, Dean's List