

Sahil Janjua Software Engineer | Full-Stack, Cloud & AI Systems

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Profile Summary

- **Software Engineer** with **3 years** of experience building full-stack products, secure authentication systems, **AI**-powered resume analysis tools, and forms management platforms across **SAP** and **The Growth Spark**.
- Hands-on experience across **Java**, **JavaScript**, **TypeScript**, **Node.js**, **Express.js**, **Spring Boot**, **React.js**, **Angular**, and **Next.js**, with a focus on building clean **APIs**, reliable user workflows, and maintainable web applications.
- Experienced in cloud-based development using **AWS**, **Docker**, **Kubernetes**, **Terraform**, **MongoDB**, **Redis**, and **SQL**, including backend services, containerized deployments, infrastructure as code, and production issue resolution.
- Collaborative engineer who works closely with product, QA, and engineering teams through **code reviews**, sprint demos, and cross-functional planning to resolve issues, improve delivery quality, and ship practical features on tight timelines.

Technical Skills

Programming Languages: JavaScript/TypeScript, Java, Python, SQL, HTML/CSS

Front-End Frameworks: React.js, Next.js, Angular, Vite, Tailwind CSS

Back-End Frameworks: Node.js, Express.js, Spring Boot, Spring Cloud Gateway, FastAPI

AI/ML & LLMs: DeepSeek APIs, Transformer Embeddings, Semantic Similarity Search, Prompt Engineering, Vector-Based Candidate Matching

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis

Messaging & Real-Time Systems: Apache Kafka, WebSockets, Server-Sent Events (SSE)

Testing Frameworks: Jest, Jasmine, Selenium, JMeter

DevOps & Infrastructure: Docker, Kubernetes, Terraform, GitHub Actions, GitLab CI, Jenkins, Prometheus, Grafana

Cloud Platforms: AWS (EC2, S3, IAM, VPC, CloudWatch, Polly), GCP

Developer Tools: Git, GitHub, Jira, Postman, Chrome DevTools

Work Experience

The Growth Spark

Vancouver, BC

Junior Software Engineer

May 2024 - Present

- Built full stack authentication systems, **AI** resume analysis tools, and forms platforms with **Node.js**, **React**, **Next.js**, **AWS**, and **Kubernetes**, collaborating with engineering, **DevOps**, **QA**, and product teams through **Agile** ceremonies, reviews, planning, demos, and discussions, reducing support tickets and speeding candidate screening workflows.
- Developed auth and identity workflows in **Node.js/Express.js**, combining **PASETO** token generation, secure cookie storage, bcrypt password hashing, refresh token rotation, **Google OAuth2**, and email verification to cut support tickets by **30%**.
- Built a forms management platform with validated **API** submissions, **CSRF** protection, rate limiting, authenticated endpoints, file uploads, standardized error responses, role-based approvals, and **Google** Drive integration.
- Deployed a **DeepSeek LLM** resume analysis system with prompt templates, output parsing, transformer embeddings, and cosine similarity to score candidate-job fit, extract insights, and generate ranking summaries with a strong **F1** score.
- Provisioned **AWS** backend and inference workloads on **EC2 g4dn GPU** instances using spot strategies, auto scaling groups, **AMIs**, **S3**, **IAM**, **Terraform S3** state, isolated **VPC** routing, **NAT** gateways, and **NACLs**, reducing infra costs by **40%**.
- Containerized backend **APIs** and **AI** inference services with **Docker**, **Kubernetes**, **GitHub Actions**, and **GitLab CI**, using multi-stage builds, rolling updates, promotion gates, and test automation to cut manual deployment effort by **60%**.
- Integrated logging, monitoring, and alerting with **Winston/Pino**, **CloudWatch**, **Prometheus**, **Grafana**, and **Slack/email** notifications, tracking **API** errors, **GPU** usage, and authentication failures to identify and resolve production incidents.
- Built test suites and frontend workflows using **Jest**, **Mocha/Chai**, **Supertest**, **React**, **Next.js**, **Axios** interceptors, context-based auth state, validated forms, and drag-and-drop uploads, raising code coverage to **78%**, catching **15+**

regression issues, and reducing user task completion time by **35%**.

SAP

Vancouver, BC

Software Developer Intern for SAP Analytics Cloud

Jan. 2022 - Sep. 2022

- Contributed to **SAP Analytics Cloud**'s data blending widget, a core feature of an enterprise **BI SaaS** serving **30,000+** customers across **150+** global regions and processing billions of data rows daily across multi-tenant production environments.
- Debugged the blending data analytics widget in **Java**, **JavaScript**, **CSS**, and **Node.js** with **Chrome DevTools** breakpoint and network profiling, resolving **5+** production issues monthly and increasing client satisfaction by **15%**.
- Optimized the data blending widget for production workloads by implementing virtualized table rendering and query batching, reducing render time from **8 s** to **3 s** on datasets exceeding **1M** rows and improving dashboard responsiveness for **1,000+** concurrent enterprise users.
- Wrote and maintained unit, integration, end-to-end, **UI** automation, regression, **Jasmine**, and **Selenium** tests covering blending and data analytics features, reaching **82%** test coverage.
- Reviewed sprint code to catch bugs and receive feedback, ran sprint demos to present completed features to cross functional stakeholders, improved development practices and cut cycle time by **2** days.

Projects

Multimedia Review Platform (Letterboxd Clone)

- Linked the **TMDb API** to a **Node.js** backend with **REST** endpoints and axios calls, retrieving data dynamically and building a tag-based genre search mapping query params to **TMDb** genre **IDs** with multi-tag **AND** and **OR** logic to filter results.
- Built **JWT** authentication with **HS256** signing, token expiry and refresh token rotation, improving **CRUD** for user management with **Mongoose** validators and middleware-driven request handling.
- Designed a **MongoDB** schema with embedded documents and denormalization, adding compound indexes on `userId`, `reviewId`, and genre and text indexes for search, improving query speed and reliability.
- Set up **WebSocket** rooms with **Socket.io** to broadcast user join and leave events and live review updates between clients and server in real time.

Neuragate

- Developed an **AI**-driven self-healing **API** gateway on **Java 21** and **Spring Cloud Gateway**, using Project Loom virtual threads to power a **Kafka**-based event-driven telemetry and load testing pipeline feeding a real-time anomaly detector and **AI** advisor, and implementing confidence-gated remediation on **Resilience4j** circuit breakers and **Redis**-backed rate limits.
- Built reactive **JWT RBAC** for **3** roles with **11 Micrometer Prometheus** gauges, an **SSE** dashboard, and a **1000** req/min stress harness, coordinating services with **Docker Compose** with **Kafka**, **Redis**, **Prometheus**, and **Grafana**.

EcoBrief

- Built a scale-to-zero distributed **AI** news oracle combining a **Java** ingestion service that streams RSS feeds into an **S3** data lake with a **FastAPI** orchestrator, using **Boto3** to provision ephemeral **ARM EC2** instances on demand and self-terminate post-inference, keeping **AWS** spend near zero.
- Deployed a quantized **3B** parameter **Llama 3.2** model with **Ray Serve** and llama cpp **python** in a **2 GB RAM** footprint, generating **MP3** summaries with **AWS Polly** and serving transcripts and audio briefings with **React**, **Vite**, and **Tailwind**.

Education

Simon Fraser University

B.Sc. in Software Systems

Sep. 2020 - Jun. 2024

Vancouver, BC