

Shounak Ravi Bhalerao

Full Stack Developer & Cybersecurity Expert

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CAREER SUMMARY

Software engineer with **5.5 years** of experience designing and shipping production-grade systems at scale. Specialises in scalable backend architecture, distributed microservices, and AI-native engineering. **Proven ability to own systems** end-to-end: from high-level design through deployment, observability, and continuous iteration. Currently deepening expertise in **emerging intersection of secure & intelligent systems**.

WORK EXPERIENCE

Software Development Engineer 3 (SDE3), Atlassian

Sep. 2025 – Current

Remote/Sydney, AU

- Refactored high-traffic synchronous request flows into **async, non-blocking architectures**, reducing thread contention and mitigating recurring Sev incidents; evaluated Virtual Threads (Java 25) feasibility with a **4-person squad** to further reduce contention at scale.
- Implemented **SSE streaming endpoints** for long-running research queries, improving response continuity and minimizing timeout failures; refined server-side LLM event handling improving agentic application **performance by 7%**.
- Strengthened infrastructure provisioning using **Terraform** and standardized deployment patterns within Atlassian's Micros (AWS-based PaaS); improved observability via **SignalFx & Splunk** dashboards with structured logging for query planning, orchestration, and guardrail enforcement, **reducing time to mitigation by 5%** for subsequent months.
- Integrated **Google Gemini** into Rovo Chat via the **Agent-to-Agent (A2A) protocol** and **Agent-to-UI (A2UI)**, enabling extensible, multi-model conversational workflows.
- Spearheaded an Agentic AI Bot that autonomously scans repositories, identifies vulnerabilities, and auto-generates patches, **lifting security rating from 84% to 90% within two weeks**.
- Designed a **consumption-based pricing model** for internal AI applications with action/skill-based credit tiers, directly tying AI feature usage to monetisation.
- Improved developer productivity by implementing **BitBucket Pipeline Agents** and building an AI-powered **RAG-style prompt skill** that auto-generates end-to-end tests from the existing codebase, reducing manual test-authoring time.

Programmer Analyst, Manulife Ltd.

Nov. 2022 – Aug. 2024

Cognizant Ltd, Bengaluru

- Ensuring **100% production deployment track record** and code quality throughout all projects and deployments.
- **Reduced response time by 95%** (12 to 0.6 seconds), via optimizing storage, aggregation and retrieval of data.
- Owned Microservices **catering to millions of requests** and configuration of SQL, No-SQL, and block storage achieving high-performance, minimal latency and high reliability using Reactive Spring and Spring Security 6.
- Optimized Compute & Storage resources by **90 percentiles**, reducing millions of Yen in Operational Expenditure
- Led a team of 3 including Front-end & Database Engineers, to implement 2 features successfully.

Senior Systems Engineer, Sabre Ltd.

Nov. 2020 – Nov. 2022

Infosys Ltd, Bengaluru

- Achieved seamless integration for a new Microservice shadowing COBOL-based systems with Spring Boot.
- Leveraged Strangler Design Pattern to transition from Legacy System in 2 years parallelly enhancing observability.
- Refined the **quality of Groovy-based Automation Tests by 35–40%** for selected elements and enhanced code quality by implementing Functional Reactive Programming practices, maintaining comprehensive inline documentation and structured code comments throughout.

OPEN SOURCE CONTRIBUTION

Contributing Programmer, ThothTech/OnTrack

Nov. 2024 – Feb. 2025

Online

- Ideated and crafted Amazon SNS based Email Service, improving student satisfaction and interaction.
- Contributed towards **migration of Legacy Angular 1.x components to latest Angular 15** code base.
- Championed a comprehensive documentation overhaul using Astro.js, adding onboarding guides and architecture diagrams, reducing new developer ramp-up time.
- Fixed 6 of the long outstanding bugs in Frontend (Angular) and Backend (Ruby on Rails) Systems.

- Created Reports, Presentation and Slides showcasing newer features to prospective clients and new stakeholders.

Programmer, FasterXML/Jackson-Jr

Online

- Engineered support for int[] de-serialization, Serialization of Java 17 & Groovy Records.
- Fixed issues regarding Duplicate Key Detection for simple Objects, Support for BigDecimal for floats
- Implemented multi-level testing POC using maven for different target Java Runtime Environments (JREs)

TECHNICAL SKILLS

Languages: Java / Kotlin / Groovy Scripting (basic), TypeScript, SQL, HTML / CSS / JS, Python

Frameworks: Spring, Spring Boot Ecosystem, Hibernate (for Spring JPA), Angular, Swagger, AstroJS, SolidStart, Node.js (basic), Junit, Mockito

Cybersecurity & Networking: Wireshark, OWASP ZAP, Burp Suite, Nmap, Security Onion, Autopsy, Volatility3, SonarQube (SAST), Zap Proxy (DAST), Keycloak (IdP)

DevSecOps: Jenkins, Docker, Kubernetes, GraphQL, Istio Service Mesh (basic), SonarQube, Kafka/Amazon SNS, Azure CLI, Google Cloud Platform

Google Cloud (GCP): Compute, Cloud SQL, Firebase, Logging

Amazon Web Services (AWS): EC2, ECS, EKS, S3, API Gateway, Lambda

Microsoft Azure: Service Bus, Cosmos DB, SQL, API Management, Credentials Manager

Developer Tools: IntelliJ, Git, VS Code, PyCharm, Eclipse, Visual Studio, Beyond Compare

Machine Learning: Scikit-learn, imbalanced-learn, PyTorch, pandas, NumPy, Matplotlib, Seaborn, Requests, Struct

CERTIFICATIONS

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| IBM QRadar SIEM Foundation | Nov. 2024 |
| Google Cybersecurity Certificate (8 sub-courses) | Nov. 2024 |
| Kubernetes for KCA Certification | May. 2024 |
| Service Mesh, Istio Basics & API Gateway Integration | Apr. 2024 |
| Ultimate AWS Certified Cloud Practitioner [CLF-C02] | Apr. 2024 |
| Exampro Microsoft (SC-900) | May. 2022 |
| Business Communication Excellence Program Level 10 | May. 2021 |
| Infosys Foundation Program – Java Spring & Angular (Batch Topper: 92 Marks) | May. 2021 |
| Global Agile Developer | Apr. 2021 |
| Java SE8 Developer | Apr. 2021 |
| L1 Junior Java Developer | Apr. 2021 |

EDUCATION

| Degree | Institution / Location | Year | Scoring |
|-------------------------|------------------------------|------|-----------------------------|
| Master of Cybersecurity | Deakin University, GIFT city | 2026 | High Distinction (84.5 WAM) |
| Bachelors in CSE | DIEMS, Chh. Sambhajinagar | 2020 | Distinction |

EXTRA-CURRICULAR

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| Founding Member - Deakin GIFT City Coding Club (DGCC) <i>Deakin GIFT City IBC, Gujarat</i> | Jul. 2024 - Aug. 2025 |
| <ul style="list-style-type: none"> • Seminar: Dockerfile Optimization - writing, securing and optimize Docker images, using industry best practices • Seminar: SQL - Writing SQL, Joins, Aggregate Functions, Views, Sub-Queries, and Efficient Database Design. • Seminar: PowerBI Dashboard - Using real time data, to create responsive, and visually appealing Dashboard. • Seminar: Operational Security (OPSEC) - Securing your data online, and reducing footprinting on the internet. | |
| Throw ball Player - District Level <i>Tender Care Home, Chh. Sambhajinagar</i> | Jan. 2013 - Dec. 2014 |
| Proficient English Speaker - IELTS Band 8.5 | Mar. 2024 |