Vaibhav Dabhi

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SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, T-SQL, HTML, CSS
Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST and SOAP APIs, microservices, JWT, OAuth2, RBAC, Node.js, FastAPI
Frontend: React, Next.js, Ionic
Databases: PostgreSQL, MySQL, Azure SQL, MongoDB; schema design, query optimization
Cloud and DevOps: AWS (EC2, S3, Lambda, IAM), Docker, GitHub Actions, CI/CD, Git, Linux, JIRA
Integration and Identity: SAP integration, LDAP, Active Directory (AD DS), OpenText AppWorks, WorkForce Software Emplive
Testing and AI: JUnit, Mockito, unit testing, Agile/Scrum; LLM API integration (OpenRouter, Groq)

EXPERIENCE

Alpha Circuit I LLC | Software Engineer | Elmhurst, IL | Sep 2026 to Present

- Build and maintain backend services and REST APIs for internal manufacturing, quality, and engineering software at a high-reliability printed circuit board manufacturer.
- Automate manual manufacturing and quality workflows, and integrate manufacturing, quality, and business systems so production data moves between them reliably.
- Build SQL-backed dashboards and reports on production, process, and yield data, and support the production software the shop floor depends on.

Illinois State University | Graduate Teaching Assistant, Java | Normal, IL | Aug 2025 to May 2026

- Taught weekly Java labs for 45+ undergraduates covering data types, classes, inheritance, arrays, and sorting algorithms including merge sort and selection sort, plus debugging in Eclipse.
- Graded programming assignments and set up pair programming for problems that needed two minds.

TatvaSoft | Software Engineer | Ahmedabad, India | Nov 2023 to Jul 2024

- Built and secured 12 production Spring Boot REST APIs with JWT, OAuth2, and role-based access control through Spring Security.
- Improved API response times by tuning JPA connection pools and fixing N+1 query patterns found through query profiling.
- Cut coordinator review time 70% across 500+ weekly workflows by designing and deploying an Interview Management System with role-based dashboards and optimized SQL.
- Deployed services to on-premise Linux servers, with builds automated through GitHub Actions.
- Delivered full-stack features with Spring Boot, React, and PostgreSQL.

Staunchsys IT Services Pvt. Ltd. | Software Engineer (Consultant) | Ahmedabad, India | Jul 2021 to Oct 2023

- Translated Australian labor laws into T-SQL payroll logic in WorkForce Software (Emplive), validated across 2,000+ employee pay cycles with zero errors per run.
- Digitized an end-to-end purchase requisition and purchase order process on OpenText AppWorks with SAP integration, including a real-time approval dashboard that processed thousands of orders.
- Built a multilingual NPS survey platform in 7 languages, owning the full SDLC from requirements and relational schema design to custom Java API development.
- Wrote custom Java API connectors and SOAP web service workflows to integrate AppWorks with SAP, and with LDAP for user authentication and access.
- Designed the backend and database schema for a food-ordering platform with Spring Boot and React, securing user and payment data with JWT and two-factor authentication.
- Configured and managed AWS infrastructure across EC2, S3, Lambda, and IAM, and wrote unit tests for backend code before each release.
- Gathered requirements directly from business users, turned them into technical designs, and moved the team from Excel case tracking to JIRA Kanban.

Kepsure Solutions Pvt. Ltd. | Technical Support Engineer | Ahmedabad, India | Nov 2020 to May 2021

- Supported networks, Windows servers, and user access for 20+ organizations, including metro rail and natural gas utilities.
- Traced recurring issues to their root cause and wrote solution guides so teammates could apply fixes without repeating the troubleshooting.
- Resolved firewall issues within about an hour and network issues within 2 to 3 hours.
- Configured AWS IAM policies and roles and Active Directory Domain Services, and managed Windows Server permissions and backups.

MindTech Consultancy | Mobile Application Developer | Ahmedabad, India | Aug 2019 to Dec 2019

- Built 3 cross-platform mobile apps with Ionic and JavaScript as part of a team, including a hospital appointment booking app, consuming REST APIs and collaborating through Git in agile sprints.

PROJECTS

ZenDSA, Live Platform, Built and Operated Solo | Java, Spring Boot, Next.js, TypeScript, PostgreSQL, Docker | Dec 2025 to Present

- Built and operate a live DSA learning platform with 37 sign-ups: a Spring Boot REST backend on PostgreSQL in Docker on Render, a Next.js frontend on Vercel, and GitHub Actions CI enforcing test coverage.
- Integrated OpenRouter and Groq LLM APIs behind a fallback chain, so a failed request moves to the next provider and users still get a hint.
- Found and patched an SSRF vulnerability in the LLM proxy layer through a self-initiated security audit, before any user was exposed.
- Added Actuator health checks, tuned HikariCP connection pools, structured JSON errors, and trace-ID logging to follow any request end to end.

Revive and Rewear, Full-Stack E-Commerce Platform | Python, FastAPI, React, MongoDB, JIRA

- Built the admin dashboard and OTP email login in a five-person team, tracked on JIRA.

IoT Network Device Identification | Python, scikit-learn, Pandas, NumPy, SMOTE

- Reached 94% device-classification accuracy on a Python pipeline over 20,000+ network records, after catching a labeling bug that had inflated earlier numbers.

EDUCATION

Illinois State University | Master of Science, Computer Science | GPA: 3.75 / 4.0 | Normal, IL | Aug 2024 to May 2026

Gujarat Technological University | Bachelor of Engineering, Information Technology | GPA: 3.41 / 4.0 | Ahmedabad, India | May 2015 to May 2019

CERTIFICATIONS AND ACHIEVEMENTS

- AWS Certified Cloud Practitioner (Oct 2022) | Google AI Fundamentals (Aug 2026) | Atlassian Agile Project Management Professional Certificate (Jan 2025)
- Solved 250+ data structures and algorithms problems on LeetCode.