

Archit Joshi

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EXPERIENCE

Full-Stack Software Engineer

Aug 2024 - Present

Ecolab

St. Paul, MN

- Delivered real-time operational insights to 500+ corporate area managers worldwide by building and shipping the Executive Business Review tool, using a responsive Angular/TypeScript UI backed by REST APIs in C#/.NET Core.
- Migrated Angular from v16 to v20 across 4 major versions, resolving vulnerabilities flagged by Snyk along the way.
- Cut response times to under 3 seconds by migrating the data access layer from raw SQL to Entity Framework Core, applying indexing, async/await, and projection strategies.
- Reduced code duplication and improved consistency across the stack by architecting the C#/.NET backend with Repository, Factory, and Strategy patterns, and the Angular frontend with a centralized Store for predictable state across page transitions.
- Cut query execution time by 20% and increased API throughput by redesigning Snowflake data models to eliminate performance bottlenecks in analytics workloads.
- Reduced CSS bundle size by 30% and improved UI consistency by owning a full SCSS-to-Tailwind migration, establishing design tokens, utility classes, and component standards.
- Cut escaped regressions to near zero and issue resolution time by 30% by strengthening production reliability with 98% automated test coverage (NUnit, Karma/Jasmine, Playwright), and Application Insights telemetry.

Machine Learning Course Assistant

Jan 2024 - Aug 2024

Rochester Institute of Technology

Rochester, NY

- Led recitations for ML courses, covering supervised/unsupervised learning, model evaluation, and feature engineering.
- Evaluated and debugged assignments for 70+ students using NumPy, Pandas, scikit-learn, and PyTorch, ensuring correctness and performance of end-to-end ML pipelines.

SAP System Architect

Aug 2019 - Jul 2022

IBM

Pune, India

- Maintained 99.9% uptime across 9 SAP ERP systems serving as the supply chain backbone for Panasonic North America, supporting procurement, inventory, and logistics at enterprise scale.
- Owned end-to-end incident triage and resolution for mission-critical supply chain systems via ServiceNow, maintaining 98% SLA compliance across a high-stakes enterprise environment.
- Closed a longstanding security gap across the ecosystem of 9 SAP ERP systems by replacing IP-whitelisting as the sole access control with custom, role-based ACLs.
- Identified operational inefficiencies in SAP monitoring workflows and independently drove automation using Blue Prism RPA, eliminating 90% of manual errors.

EDUCATION

Rochester Institute of Technology

Rochester, NY

Master of Science in Computer Science

Aug 2022 - May 2025

Symbiosis International University

Pune, India

Bachelor of Technology in Information Technology

Aug 2015 - May 2019

PROJECTS

GitGrove – Cross-platform desktop app built with Tauri that discovers and visualizes local git repositories – Rust-powered code statistics via tokei, language-breakdown and contribution-graph views, and persisted scan state across sessions.

Blurbot – Agentic pipeline that keeps a portfolio’s “currently working on” section in sync with live GitHub activity; drafts blurbs with Claude, self-critiques them against a style guide in a structured revise loop, and opens PRs via the GitHub API on scheduled GitHub Actions runs.

MyAnimeList Data Engineering and Analytics – Stored and queried 80M+ records across PostgreSQL and MongoDB. Applied the Apriori algorithm to extract user behavior patterns and indexing to increase query performance.

TECHNICAL SKILLS

Languages: C#, Rust, TypeScript, Python, Java, SQL

Frameworks: .NET Core, Entity Framework Core, Node.js, Angular, Tauri

Databases & Cloud: Azure, PostgreSQL, MongoDB, Snowflake

Tools: Git, Docker, GitHub Actions, Playwright, NUnit, Claude, GitHub Copilot