

Rishit Yogesh Bafna

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EDUCATION

Arizona State University

Master of Science in Computer Science

Tempe, AZ

Jan 2026 – May 2027

Arizona State University

Bachelor of Science in Computer Science (Software Engineering), cum laude — GPA: 3.4

Tempe, AZ

Dec 2025

- **Honors:** New American University Scholar (4 years), Dean's List (multiple semesters)
- **Relevant Coursework:** Operating Systems, Distributed Software Development, Machine Learning, Software Analysis & Design, Programming Languages

PROJECTS

Distributed Key-Value Store | Java, Raft Consensus, gRPC, Protocol Buffers

2025–Present

- Building fault-tolerant distributed database implementing Raft consensus algorithm with leader election, log replication, and automatic failover across 5-node cluster during network partitions.
- Designed gRPC client-server protocol achieving 45K writes/sec and sub-5ms P99 latency under load testing with JMeter simulating 10K concurrent clients.

AI Study Buddy | React, Node.js, PostgreSQL, OpenAI API, Stripe

2026

- Built full-stack SaaS platform enabling students to generate AI-powered flashcards, quizzes, and summaries from uploaded course materials using GPT-4 and vector embeddings.
- Integrated Stripe payment processing and JWT authentication, deployed on Vercel serving 100+ active users with 95% positive feedback on study effectiveness.

Real-Time Collaborative Code Editor | React, WebSockets, CRDT, Redis, Docker

2025–Present

- Developed collaborative editing platform supporting 50+ simultaneous users per document using Conflict-free Replicated Data Types for operational transformation and eventual consistency.
- Implemented WebSocket server with Redis pub/sub for horizontal scaling, handling 1000+ concurrent connections with automatic reconnection and conflict resolution.

Job Application Tracker | JavaScript, Chrome API, React, Node.js, PostgreSQL

2026

- Created Chrome extension with intelligent form detection auto-filling job applications across 50+ job boards, reducing application time by 60% through DOM parsing and field mapping.
- Built web dashboard tracking 200+ applications with status updates, deadline reminders, and analytics showing response rates and application patterns.

EXPERIENCE

Software Engineering Intern

Aug 2025 – Dec 2025

J. Miller Custom Cues

Tempe, AZ

- Collaborated with 3-person team to ship production 3D configurator using Three.js and React, reducing customer revisions by 35% and currently serving active customers with real-time photorealistic cue customization.
- Built PostgreSQL REST API with Stripe payment integration processing live orders, implementing transactional cart management eliminating checkout errors and achieving sub-200ms response times in production.

Software Engineering Intern

May 2025 – Jul 2025

Winssoft Technologies India Pvt. Ltd.

Mumbai, India

- Optimized production SQL queries processing 500K+ records with composite indexes and materialized views, reducing dashboard page load time from 8 seconds to under 2 seconds.
- Refactored payment microservice adding idempotency checks and database constraints, eliminating duplicate transaction bugs affecting data integrity across 10K+ daily transactions.

SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, C, SQL

Frontend: React, TypeScript, HTML/CSS, Chrome Extensions

Backend: Node.js, FastAPI, Express.js, gRPC, WebSockets, REST APIs

Databases: PostgreSQL, MySQL, MongoDB, Redis

Tools & Platforms: Git, Docker, Linux, AWS (S3, EC2), JMeter