

Rishit Yogesh Bafna

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EDUCATION

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| Arizona State University <i>Master of Science in Computer Science</i> | Tempe, AZ |
| Arizona State University <i>Bachelor of Science in Computer Science (Software Engineering), cum laude — GPA: 3.4</i> | Jan 2026 – May 2027 |
| | 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

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| 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

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| Software Engineering Intern <i>J. Miller Custom Cues</i> | Aug 2025 – Dec 2025 |
| – 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. | Tempe, AZ |
| – 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 <i>Winssoft Technologies India Pvt. Ltd.</i> | May 2025 – Jul 2025 |
| – 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. | Mumbai, India |
| – 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