

Rishi Ganji

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Summary

Computer Science professional with a strong foundation in full stack web development and software engineering. Proficient in Python, C++, PHP, JavaScript, and security best practices, I have a proven track record of designing and implementing secure, scalable, and reliable web applications. I excel in product engineering and system architecture, with hands-on experience in data analysis, continuous improvement, and meeting strict service level agreements (SLAs). Driven by a growth mindset and accountability, I thrive in collaborative environments and consistently deliver high-quality solutions that align with business objectives.

Education

Master of Science in Computer Science

California State University, Chico | Aug 2023 - May 2025 | CGPA: 3.71

Bachelor of Technology in Computer Science

Anurag Group of Institutions | Aug 2019 - May 2023 | CGPA: 8.44

Technical Skills

- **Programming Languages:** Python, TypeScript, JavaScript, Dart, C++, Java, PHP, C#
- **Web Development:** HTML, CSS, JavaScript/TypeScript, React (+ Next.js), Bootstrap, Node.js, Express, FastAPI, Django, Django Channels, GraphQL, REST APIs, WebSockets, Asynchronous Programming, PHP/CodeIgniter, MongoDB, MySQL
- **Mobile & Cross-Platform:** Flutter, Android & iOS deployment, Google Maps SDK, Geocoding API, Camera/Gallery integration
- **Cloud & Backend Services:** Firebase (Auth, Cloud Firestore, Realtime Database, Storage, Cloud Messaging), Redis, ASGI, Real-time messaging
- **Testing & Quality:** Cypress, Supertest, PyTest, Unit & Integration testing, End-to-End testing, Load/Stress testing (50 k concurrent users)
- **Technologies & Tools:** Full-Stack Development, API Development, System Architecture, Real-Time Web Applications, Push Notifications, Product Analytics, SLA Compliance, Observer & other Design Patterns, Security best practices
- **Data Skills:** Data Analysis, Machine Learning, Data Science
- **Soft Skills:** Communication, Collaboration, Accountability, Time Management, Teamwork, Problem Solving, Attention to Detail, Continuous Improvement, Reliability, Growth Mindset

Work Experience

• Full Stack Web Developer

Shape-AI | June 2021 - May 2023

- Fast-tracked from 3-month internship to full-time Software Engineer for delivering production-ready features that now serve **registered learners** across web and mobile platforms.
- Built REST + GraphQL APIs for course enrollment, progress tracking, and live bootcamp scheduling; load-tested to **50 k concurrent users** with zero downtime during peak events.
- Integrated Razorpay payments and promo-code engine, driving a **22 % increase in paid enrollments** and 1.8 Cr in incremental revenue (FY 2023).
- Designed a self-service React + Node application that automates 3 000+ annual scholarship awards; reduced manual processing time by **80 %**.
- Implemented JWT/OAuth (Google, GitHub) authentication, role-based access control, and OWASP compliant input validation—**0 critical vulnerabilities** in latest Snyk scan.
- Added unit/integration tests (Supertest, PyTest) and Cypress e2e suite, bringing overall backend coverage to **92 %** and cutting prod bug rate by **35 %**.
- Mentored 5 engineering interns on clean code, Git workflows, and Agile practices; facilitated weekly code reviews and sprint retros that improved team velocity by **18 %**.

- **Instructor, Web Development**

Anurag Group of Institutions | May 2021 - May 2022

- Led front-end web development classes, guiding junior students in HTML, CSS, JavaScript, and security fundamentals.
- Developed course materials that emphasized software engineering principles, system architecture, and best practices.
- Evaluated student projects to ensure quality and reliability while fostering a collaborative learning environment.

Projects

- **Chessboard Rendering (Real-Time Multiplayer Chess Application)**
 - * Engineered an interactive online chess platform that dynamically renders the board with accurate background colors, labels, and integrated History, Rules, and About sections.
 - * Developed robust join, login, and logout functionalities to securely manage user sessions.
 - * Implemented a seamless game management system for authenticated players to challenge each other and engage in valid chess moves.
 - * Leveraged Django Channels and WebSockets to replace AJAX polling, reducing latency from approximately 500 ms to under 100 ms and optimizing server resource usage.
 - * Employed best practices in product engineering, system architecture, and security.
 - * Deployed the project as a single Django image with Redis, Daphne, and Supervisor on a static IP server.
- **SecondChance Marketplace (Flutter-Based Local Resale Mobile App)**
 - * Built a cross-platform marketplace that lets users snap photos, list items, and negotiate purchases entirely in-app.
 - * Integrated secure email/password login with *Firebase Auth* and hardened *Firestore/Realtime Database* rules to enforce least-privilege access.
 - * Crafted a responsive *Flutter* UI that embeds camera/gallery uploads and geo-tags listings.
 - * Leveraged the Geocoding API plus geo-queries to deliver location-aware search and an optional *Google Maps* view.
 - * Added sub-150 ms buyer-seller messaging via *Firebase Realtime Database* and push notifications.
 - * Implemented client-side pagination and batched writes to cut Firestore read costs by ~35 %.
 - * Shipped to Android & iOS through a *GitHub Actions + Firebase App Distribution* pipeline.
 - * Instrumented product analytics for UX iterations and followed best practices in accessibility, scalability, and security.
- **Wildcat Hiking Club Website**
 - * Developed a dynamic web platform for Chico State's hiking club using PHP/CodeIgniter and MySQL.
 - * Built the frontend with HTML, CSS, and Bootstrap for a responsive user interface.
 - * Implemented a secure admin dashboard for event creation, management, and analytics.
 - * Integrated role-based user registration restricted to authorized Chico State students with password hashing and session management.
 - * Leveraged the Observer pattern for real-time hike update notifications.
 - * Achieved over 90 % unit test coverage on critical controllers to ensure data integrity and reliability.
- **College Predictor Website**
 - * Developed a prediction model to suggest universities based on student performance metrics in public entrance examinations.
 - * Integrated alternative university suggestions to broaden the application pool.
 - * Designed a responsive, user-friendly interface optimized for all devices.
 - * Applied data analysis techniques and continuous improvement strategies to refine predictions.

Awards & Achievements

- Runners-up in the Tech Hack 2019 hackathon conducted by IBM.

Certifications

- Full Stack Web Development