RAHUL DATTA

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EDUCATION

Santa Clara University <div align="right">**Santa Clara, CA**</div>

B.S. in Computer Science, Minors in Mathematics & AI <div align="right">*Expected, June 2027*</div>

- **Coursework**: Data Structures & Algorithms, Object Oriented Programming, Multivariable Calculus, Discrete Math, Linear Algebra
- **Involvements:** President, Math and Computer Science Society; Alpha Kappa Psi; Chess Club; South Asian Community; ACM

PROFESSIONAL EXPERIENCE

MathGPT | math-gpt.org <div align="right">**San Fransisco, CA**</div>

Full Stack AI Engineer <div align="right">*Apr 2025 – Jul 2025*</div>

- Architected an LLM-driven Practice-Test engine with Next.js serverless API routes, OpenAI tool-calls, Supabase, and Mixpanel Analytics that streamed 120K+ questions to 9K+ users in 30 days and increased average session length by 34%
- Implemented a streak-based engagement engine using Supabase Realtime, Next.js cron tasks, Loops email API, and Clerk Auth, automating personalized reminders and lifting seven-day retention from 11% to 18% among 25K+ active users
- Optimized OpenAI function-call pipeline on Vercel Edge by enhancing Qdrant vector search and refining backend pipelines with deterministic ordering and atomic writes, resolving chat race conditions and reducing latency by 30% and overall error rate by 20%

Santa Clara Sports Performance <div align="right">**Santa Clara, CA**</div>

Data Science Intern <div align="right">*Jan 2025 – Present*</div>

- Automated the extraction and transformation from 2.5M+ rows of Catapult GPS tracking data from men's and women's D1 soccer teams to generate actionable risk scores, enabling coaches to identify high-risk moments and proactively adjust training intensity
- Developed and refined machine learning models to analyze physiological and biomechanical data (velocity, acceleration, player load, metabolic power) for real-time injury risk prediction using Pandas, NumPy, and scikit-learn
- Collaborated with Sports Science Directors and Dr. Smita Ghosh to translate model insights into practical coaching recommendations, supporting data-driven decisions that optimize athlete health and performance

Milio | milio.shop <div align="right">**Santa Clara, CA**</div>

Principal Software Engineer <div align="right">*Dec 2024 – Mar 2025*</div>

- Spearheaded the engineering and architecture of a modern e-commerce platform for collectibles, leveraging Next.js, React, TailwindCSS, Supabase (PostgreSQL), and Stripe for seamless product management, authentication, and payments
- Established robust local and cloud development workflows with Bun, Docker, and Vercel, and implemented automated database migrations and type generation to ensure data integrity and developer velocity, reducing manual CI/CD pipeline runtime by 40%
- Integrated secure Stripe Checkout and webhook handling, enabling real-time subscription management

Revoteen | revoteen.com <div align="right">**San Ramon, CA**</div>

Software Engineer <div align="right">*Jul 2022 - Jul 2024*</div>

- Led the development of a full-stack social networking platform connecting like-minded students across the globe using Next.js, Firebase, and AWS, amassing 10,000+ users across 70+ countries with 800+ opportunities (internships, projects, summer programs)
- Optimized recommendation and string-match algorithms for search and private messaging, improving user engagement by 25%
- Designed and implemented a refactor of serverless functions and APIs, reducing feed page load time by 20%

PROJECTS

Imaginary Ticketing | [Source Code](#) <div align="right">**Remote**</div>

Solo Founder & Developer

- Developed and maintained a scalable Discord ticketing bot in Python, leveraging Discord.py, Flask, SQL, and async libraries to streamline support workflow for large online communities, amassing 25,000+ users across multiple servers
- Designed an async modular architecture, reducing ticket response latency by 30% and enabling seamless integration of new features
- Implemented a CI/CD pipeline to orchestrate deployments with PM2, ensuring 99.999% uptime and zero-downtime updates

Sheltr - Hack for Humanity 2025 Winner | [Source Code](#) <div align="right">**Santa Clara, CA**</div>

Software Engineer

- Architected and launched a web app that connects disaster victims with verified nearby shelters, featuring real-time filtering, reservations, and queue management powered by Google Maps APIs, winning Best Freshman Hack at SCU's Hack for Humanity 2025
- Integrated a FastAPI backend with AWS DynamoDB and Bedrock, and deployed the platform on AWS EC2 with Nginx, enabling scalable, secure data processing and authentication for both individuals and shelter providers

SKILLS & INTERESTS

Languages/Frameworks: Python, TypeScript, C++, HTML/CSS, SQL, Bash, Express.js, React.js, Next.js, Node.js, Flask, REST
Technologies: PyTorch, Pandas, NumPy, PostgreSQL, Linux, Git, Docker, Supabase, AWS (EC2, DynamoDB, S3), Github Actions, Jira
Interests: Coffee Art, Western Philosophy, Food Prep, Chess, Vinyasa Yoga, Table Tennis, Puzzles, The Weeknd, Abstract Painting