

# RAHUL DATTA

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## EDUCATION

### Santa Clara University

Santa Clara, CA

B.S. in Computer Science, Minors in Mathematics & AI

Expected, June 2027

- **Coursework:** Object Oriented Programming in C++, Data Structures & Algorithms, Calculus I-IV, Discrete Mathematics
- **Involvements:** Association of Computing Machinery (ACM); President, Math and Computer Science Society; Underclassmen Representative, Ciocca Center for Entrepreneurship; Alpha Kappa Psi; Chess Club; Intandesh (South Asian Community)

## PROFESSIONAL EXPERIENCE

### Milio | [milio.shop](https://milio.shop)

Santa Clara, CA

Co-Founder & Software Engineer

Jan 2025 – Present

- 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

### Santa Clara Sports Performance

Santa Clara, CA

Data Science Intern

Jan 2025 – Present

- Developed and refined machine learning models to analyze physiological and biomechanical data (velocity, acceleration, player load, metabolic power) for real-time injury risk prediction for Santa Clara Division 1 Soccer Athletes using Pandas, NumPy, and scikit-learn
- Automated the extraction and transformation from 2.5M+ multi-sensor data streams to generate actionable risk scores, enabling coaches to identify high-risk moments and proactively adjust training intensity for both men's and women's teams
- Collaborated with Santa Clara Sports Performance staff to translate model insights into practical coaching recommendations, supporting data-driven decisions that optimize athlete health and performance

### VG Systems

Quantico, VA

AI/ML Intern

Jun 2023 – Sep 2023

- Spearheaded the development of an AI-powered workout app utilizing Next.js, Azure OpenAI, and Azure Cognitive Services, completing the project within a tight three-week deadline by implementing Agile methodologies
- Constructed a CI/CD pipeline employing Vercel, Supabase, and GitHub Actions, allowing for seamless deployment, database management, and JWT authentication, achieving 99.999% uptime and uninterrupted deployments

### Revoteen

San Ramon, CA

Software Engineer

Jul 2022 - Jul 2024

- 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](#)

Remote

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](#)

Santa Clara, CA

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, Unix, Linux, Git, Docker, GCP, AWS (EC2, DynamoDB, S3), Github Actions, Jira

**Interests:** Coffee Art, Western Philosophy, Food Prep, Chess, Vinyasa Yoga, Table Tennis, Puzzles, The Weeknd, Abstract Painting