

Shubhay Harnale

US citizen

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EDUCATION

Rutgers University

B.S. Computer Science

Sept 2022 - June 2026

Selected Coursework: Data Structures and Algorithms, Calculus 1, Computer Architecture, Calculus 2, Discrete Structures

TECHNICAL SKILLS

- **Languages and Web Technologies:** Python, Java, C/C++, JavaScript, HTML, CSS, React, Node.js, Express, Bootstrap, Web Scraping, API Integration
- **Cloud and DevOps:** AWS (Lex, API Gateway, Lambda, DynamoDB, ElasticSearch), Azure (Pipelines, Artifacts, Repos), Terraform, Docker, Kubernetes, Jenkins, Ansible

WORK EXPERIENCE

BarberLytics, *(Tech Lead)*

July 2025 - Present

- Co-founding AI-powered business intelligence platform that analyzes customer data, booking patterns, and revenue metrics to help barbershop owners optimize operations and increase profitability
- Architecting enterprise-grade system (Node.js, TypeScript, PostgreSQL) with secure multi-tenant architecture delivering predictive customer analytics
- Establishing strategic partnerships for integrations and go-to-market strategy

Freelance 404 Harmony, Full-Stack Developer

August 2025

- Collaborated with startup team to engineer enterprise-grade React/TypeScript application with Express.js backend, PostgreSQL database, and comprehensive admin CMS managing 15+ team profiles
- Built automated newsletter system with API integrations, type-safe endpoints, and performance-optimized architecture, achieving 70KB gzipped bundles

Freelance Web Developer, *Barbershop Client*

July 2025

- Developed custom booking management system with real-time appointment scheduling and automated SMS notifications
- Created admin dashboard with analytics tracking customer retention, peak hours, and revenue insights
- Optimized site performance, achieving 95+ PageSpeed score and implemented SEO best practices, increasing local search visibility by 40%

Neutrino Tech Systems, *DevOps Engineer*

June 2024 - September 2024

- Collaborated with the manager on an AWS-focused client project to understand requirements and deliverables, and ensuring successful project delivery.
- Developed and deployed CI/CD pipelines using Jenkins and GitLab, enhancing automation and efficiency in the development workflow.
- Engaged in comprehensive training on various DevOps tools and practices, including continuous integration, continuous deployment, containerization(Docker, Kubernetes), and orchestration(Terraform, Ansible).

PERSONAL PROJECTS

Professor Ratings Assistant Google Chrome Extension,

February 2024

- Developed a Chrome extension to help Rutgers students choose professors more effectively by displaying ratings from Rate My Professors directly on the registration site.
- Integrated extension with Rate My Professors website to display ratings beside professor names on registration site, publicized on Rutgers subreddit with positive feedback and working toward open source release.

Dining Concierge Chatbot (AWS),

March 2024

- Developed an AWS-driven Dining Concierge chatbot, providing personalized restaurant suggestions based on user preferences
- Integrated Amazon Lex, API Gateway, and Lambda functions for seamless user interactions.
- Utilized DynamoDB for efficient data storage and ElasticSearch for rapid retrieval.

Chess Game Analyzer,

July 2025

- Built a comprehensive chess analysis platform with real-time Stockfish engine integration and AI-powered coaching using Mistral AI
- Integrated Stockfish evaluation API to categorize moves as brilliant, good, inaccuracy, mistake, or blunder with position analysis
- Achieved 60+ unique visitors with consistent engagement of 20+ new users bi-weekly through intuitive UX design
- Engineered responsive interface featuring PGN parsing, interactive chessboard, drag-and-drop functionality, and mobile optimization