Som Shrivastava

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Availability: January 2026 – June 2026

EDUCATION

Northeastern University, **Khoury College of Computer Sciences** Boston, MA

Honors B.S. in Computer Science and Mathematics Expected Grad Date: Dec 2027 | GPA: 3.9/4.0

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Design, Artificial Intelligence, Discrete Structures, Statistics and Stochastic Processes, Differential Equations, Linear Algebra, Multivariable Calculus

Activities: Northeastern Autonomy & Intelligence Laboratory, Northeastern Electric Racing, Oasis

SKILLS & INTERESTS

Languages: Python, TypeScript, JavaScript, Java, C++

Frameworks & Libraries: Flask, NumPy, Pandas, Selenium, Angular, React.js, Next.js, Node.js, Express.js, Prisma, NgRx

Services & Tools: Git, GitHub, Jira, Docker, Google Cloud Platform, Firebase, Supabase, Postman, Figma, Vercel, VS Code

Interests: Financial Derivatives, Fitness, Tennis, Pickleball, Basketball, Cricket, Journaling

WORK EXPERIENCE

Northeastern Autonomy & Intelligence Lab Apr 2025 – Present

Research Assistant *Boston, MA*

- Developed a Dockerized Angular-Flask app to extract and analyze ROS2 sensor data, cutting download sizes by 75%
- Deployed an Ubuntu server with DAS to store 100+ TB of sensor data, reducing infrastructure costs by $2000+/month
- Configured Cloudflare Tunnel and Access to securely expose app via HTTPS to remote users with Northeastern credentials

Northeastern Electric Racing Sep 2024 – Jan 2025

Software Developer *Boston, MA*

- Built Angular dashboard to visualize real-time car telemetry data (e.g. battery temp), aiding engineers during testing
- Simulated live data streams to validate frontend responsiveness under test-driving conditions before track deployment

Bambala Jan 2023 – Sep 2024

Web Developer *East Brunswick, NJ*

- Developed JavaScript backend on Google App Engine to integrate digital payments, boosting transaction reliability by 25%
- Enabled OAuth login via Google, Facebook, and Apple to simplify multi-platform authentication and user onboarding
- Built Cypress test suite to automate UI validation, cut QA time by 50%, and ensure stable deployments in production
- Refactored Angular codebase using NgRx, improving maintainability and reducing state management bugs by 30%

Astraea Robotics – FRC Robotics Sep 2022 – Jun 2024

Programming Chief *East Brunswick, NJ*

- Mentored 10+ students in FRC programming with Java and Git, improving team development speed and code quality
- Programmed custom omnidirectional drive wheels and simulations, increasing robot speed by 50% during competitions
- Demonstrated autonomous routines at STEM outreach events, engaging over 250+ attendees to real-world robotics

PROJECTS

Equity Research Screener, *Software Developer* Aug 2025 – Present

- Built a stock screener with Python, Pandas, and Scikit-learn to analyze 20 years of 10-K's and macro data
- Trained ML models on all 500 S&P firms', forecasting fundamental business valuation metrics to support stock ranking
- Backtested factor models on predicted EBIT/EV, with a long portfolio generating ~15% annualized return, beating the S&P

Zerodha Automation Trading, *Software Developer* May 2025 – Present

- Designed a Node.js engine to automate selling weekly options and buying monthly hedges, aiming for defined-risk income
- Integrated Zerodha Kite Connect API to fetch market data, execute trades, and manage option positions in real-time
- Built a mock stock market using JavaScript to simulate execution flow and validate delta-based adjustment logic

Nutrition, *Software Developer* Jan 2025 – Apr 2025

- Built a full-stack meal tracking app using React, Supabase, and Vercel, enabling students to log meals and monitor macros
- Implemented a Python-based ML model to recommend meals aligned with users' goals, preferences, and dining history
- Coordinated with Northeastern dining services to pilot the app and collect live feedback from students in dining halls