Aryamaan Roy Choudhury

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EDUCATION

Northeastern University, Boston, MA

Bachelor of Science in Computer Engineering and Computer Science (**GPA: 3.81/4.00**) *Anticipated May 2028*

Global Scholars Program (Oakland & London) - Freshman Year *Sep 2024 – May 2025*

Coursework: Circuits and Signals, Analysis of Random Phenomenon, Algorithms and Data, Logic and Computation

Honors and Awards: Dean's List (Fall 2025, Spring 2026), Eta Kappa Nu (Inducted March 2026)

TECHNICAL SKILLS & INTERESTS

Software: Python, C++, Java, HTML, CSS, JavaScript, OCaml, React, Next.js, Git, SQL, OpenAI API, Pandas, scikit-learn

Hardware: AutoCAD, SolidWorks, Autodesk Fusion 360, Arduino, Raspberry Pi, Oscilloscope, Circuit Prototyping

Interests: Recreational Soccer, Basketball, Bodybuilding, Sports Photography, Fashion and Style, Video Games (Fifa, 2K)

CERTIFICATES

Machine Learning: Crimson Data Science | Singapore International Science Camp 3D Printing, AI & ML Fundamentals

Generative AI: IBM SkillsBuild Game Changers AI and the Future of Live Sports

WORK EXPERIENCE

AdaptSkillAI, Maharashtra, India (Remote)

Software Engineering Intern *Feb 2026 – Oct 2026*

- Built a Next.js and React dashboard with 6 training scenarios, category filters, module lists, and weekly progress UI
- Developed a TypeScript 6-dimension, 4-level assessment with a 90% pass threshold, micro-learning, and 3-attempt limit
- Built a TypeScript and Zod company signup form, validating registration data and submitting payloads to a backend API

StratEdge Africa, Port Louis, Mauritius (https://strat-edge-africa-website.vercel.app/ | Remote)

Web Development Intern *Jan 2026 – Aug 2026*

- Designed and developed a production-ready website as sole developer, translating business needs into a live platform
- Built a responsive multi-page app using Next.js, React, and Tailwind CSS with scalable components
- Deployed and maintained the platform on Vercel, optimizing performance, reliability, and update workflows

Weiss Asset Management, Boston, MA (Remote)

Investment Analyst Intern *Jan 2022 - Feb 2022*

- Conducted equity research and portfolio analysis within a selective investment program focused on market performance
- Designed and presented a simulated $1M stock portfolio using MS Excel with allocation strategy and risk modeling
- Achieved portfolio returns exceeding benchmark by 2-3% using Monte Carlo simulations and scenario analysis

ENGINEERING PROJECTS

Matchup DNA, Self-Developed (https://www.matchupdna.com/ | GitHub)

Software Developer (Machine Learning & Quantitative Research Project) *Oct 2026 – Present*

- Developed calibrated tennis prediction models using Elo, logistic regression, and serve-return features across ATP/WTA
- Back-tested models against betting markets on 13,846 matches, analyzing calibration, signal value, and simulated returns
- Achieved 65.9% prediction accuracy across 31,791 tennis matches, outperforming ranking-based picks by 2.65%

Hoops Stock Market, Self-Developed (https://hoopsstockmarket.com/ | GitHub)

Software Developer (Sports Analytics & Full-Stack Project) *Sept 2024 – Present*

- Developed a live NBA stock market platform using Python, Next.js, TypeScript, and Supabase backend with trading
- Engineered ETL and pricing systems processing 91,000+ NBA games into dynamic real-time player valuations daily
- Built trading, portfolio tracking, and authentication systems supporting secure, real-time market activity daily.

Supplement Recommender, Self-Developed (Team Project, GitHub)

Software Developer (Open-Source Project) *Jun 2025 – Sep 2025*

- Contributed to a full-stack supplement recommendation app using React, Node.js, and MongoDB for personalized plans
- Integrated API-based recommendation logic using OpenRouter to generate user-specific supplement suggestions
- Implemented frontend components and UI flows using React and Tailwind CSS to support user interaction and usability

LEADERSHIP AND EXTRACURRICULARS

Northeastern University Oakland, Oakland, CA

Student Programming Board *Sep 2024 - Dec 2024*

- Managed event logistics, including scheduling, promotion, and coordination to ensure smooth execution of 2+ events
- Collected and analyzed student feedback to improve programming quality and guide future event planning
- Collaborated with fellow elected students to plan and execute events, increasing student engagement and participation

EcoHarmony, Edison, NJ

Head of Outreach *Oct 2023 - Apr 2024*

- Led outreach and communications for a 150+ member sustainability organization, increasing engagement by 15%
- Directed content creation and digital initiatives to promote sustainability awareness and community involvement
- Developed and maintained a tracking system recording over 18,500 lbs of recycled materials across initiatives