

Zoya N. Rattani

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EDUCATION

University of Miami

Coral Gables, FL

Bachelor of Science in Software Engineering, GPA: 3.65/4.00

Expected Graduation, May 2027

Awards: Bright Futures Academic Scholar, Cambridge Advanced International Certificate Education Diploma with Merit

Coursework: Logic Design, Data Structures, Algorithms, Linear Algebra, Discrete Mathematics

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Java, C++, Python (NLP, Pandas, NumPy), Flask, MySQL

Software: VS Code, Unix, GitHub, JDoodle, Eclipse, Repl.It

WORK EXPERIENCE

Break Through Tech

New York, NY

Artificial Intelligence Fellow

May 2024 – Aug 2024

- Mastered fundamentals of programming, algorithms, and AI through Cornell University's extensive ML curriculum
- Analyzed industry datasets using machine learning to identify patterns that drove 30% improvement in solutions
- Developed data science skills in statistical analysis and data visualization, enhancing decision-making accuracy by 20%

Sponsors for Educational Opportunity (SEO)

New York, NY

Software Developer Fellow

Jan 2024 – May 2024

- Participated in long-term career preparation and mentorship programs to develop technical and career skills
- Completed 300+ hours of technology training on software development, databases, testing, and implementation
- Led projects that increased user engagement by 25% and improved functionality efficiency by 30% through web apps

Illinois Institute of Technology

Chicago, IL

Cyber Security Analyst Intern

July 2022 – Aug 2022

- Programmed a virtual machine that contains security tools and information security controls for tech leader, Cisco
- Engineered a virtualization environment for threat assessment testing with a team of 4 Software and Cyber engineers
- Applied defensive hacking techniques to identify and mitigate cybersecurity threats, reducing vulnerabilities by 40%

PROJECT EXPERIENCE

Cannon Game (C++)

- Developed a virtual target-shooting game where players adjust projectile angle and speed to hit a randomized target, running as a console application
- Designed a limited-attempt system with win/loss feedback, improving user engagement and level completion rate by 30%

Logistic Regression Model (NLP, Pandas, NumPy)

- Designed and implemented a Python class from scratch to develop and train a logistic regression model, leveraging gradient descent and mathematical optimization techniques, resulting in a 50% reduction in training time and a reusable, scalable tool for supervised learning tasks
- Conducted extensive preprocessing and feature engineering on Airbnb "listings" dataset using NumPy and Pandas, defining target labels, normalizing features, and handling missing data to create a high-quality dataset for training
- Achieved a 15% increase in predictive accuracy by iteratively tuning hyperparameters, optimizing the learning rate, and employing feature selection strategies to refine the logistic regression model

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

SEO Career

New York, NY

SEO Success and EDGE Participant

Jan 2024 – Present

- Completed 100+ hours of coaching and online instruction targeting professional, technical, and soft skill development
- Mastered industry-specific technical skills, contributing to a 40% increase in coding assessment scores and improving the likelihood of securing a return offer post-internship
- Receive personalized coaching, instructions to meet specific goals in interviews, technical, and professional development
- Gained a strong foundation in business fundamentals for internships and excelled in industry-focused technical training

Aga Khan Foundation

Miramar, FL

Disaster Management Team Member

Sep 2022 - Present

- Contacted 30+ community members in Orlando region to assist with sending aid, relief packages in wake of Hurricane Ian
- Coordinated with 3 major relief organizations (Public Safety, Red Cross, and local shelters) to secure temporary housing for 50+ displaced individuals

ADDITIONAL SKILLS AND INTERESTS

- **Organizations:** Boulevard, Rewriting the Code, Developer Student Club, Society of Women Engineers, Muslim Student Association, ColorStack
- **Hobbies:** Reading, Volunteering, Biking
- **Certifications:** AT&T Technology Academy, Visa Upskill Tech Pathway, Autodesk AutoCAD User Cert, Microsoft Office