

# ISHAAN MAKHIJA

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## EDUCATION

### University of Maryland, College Park

Aug 2022 - Dec 2025

*Bachelor of Science in Computer Science, Minor in Statistics, Machine Learning Track*

*College Park, MD*

**Relevant Coursework:** Software Engineering, Machine Learning, Natural Language Processing, Artificial Intelligence, Computer Networks, Sampling Theory, Algorithms, Discrete Structures

**Leadership:** Phi Gamma Delta Fraternity (DEI Chair), Department of Fraternity and Sorority Life (Sexual Assault Prevention Peer Facilitator), Maryland Leadership Education and Development (Facilitator)

## TECHNICAL SKILLS

**Languages:** C, Python, Java, HTML, CSS, JavaScript, SQL

**Frameworks:** Bootstrap, React, Django

**Tools:** AWS, Git, Postman, Docker, Swagger, Lucidchart, Wireshark, Roboflow

## CERTIFICATIONS

### AWS Certified Cloud Practitioner

Jul 2020

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern

Jun 2025 – Aug 2025

*Broadridge*

*Newark, NJ*

- Integrating AI automation to streamline content management for a marketing platform serving financial advisors
- Building a RAG search pipeline using vector embeddings to enable semantic retrieval for financial news articles
- Designing entity resolution solutions alongside interns to standardize client names via embedding-based clustering

### Infrastructure Engineer Intern

Jun 2024 – Aug 2024

*Broadridge*

*Newark, NJ*

- Met with vendors and analyzed air-gapped cyber vault solutions to enhance recovery in the event of disasters
- Composed cyber solution documentation with industry standards and SEC + PCI regulations for compliance
- Optimized appliance migration planning by organizing and consolidating information from **20k+** assets in Excel
- Collaborated with interns to design and present corporate initiatives promoting gender diversity in technology roles

### Back-End Engineer Intern

Jun 2023 – Aug 2023

*Belize FinTech*

*Remote*

- Designed API endpoints for financial institutions to facilitate KYC processes and management of banking ledgers

### Certified Trainer

May 2021 – Aug 2023

*Chipotle Mexican Grill*

*Montvale, NJ*

- Trained new hires on company procedures and policies ranging from food safety to customer satisfaction
- Maintained high standards of customer service during high-volume, fast-paced operations

## PROJECTS

### NJMVC Appointment Notifier | *Python, BeautifulSoup, AWS Lambda*

Apr 2025 - May 2025

- Built a web scraper to monitor REAL ID appointment availability and send email alerts based on user preferences

### Roots and Routes | *Python, TensorFlow, Roboflow, Remix, PostgreSQL*

Sep 2024 - Dec 2024

- Collaborated with a team of 5 developers to create a camera-based plant species identification tool for a professor
- Trained a CNN model in TensorFlow on **53** unique species of plants native to the University of Maryland campus
- Deployed updates based on testing, reducing prediction time to under **5 seconds** and boosting accuracy by **~15%**

## COMMUNITY SERVICE

### Lead Web Developer

Oct 2020 – Dec 2020

*Hills Valley Coalition*

*Montvale, NJ*

- Revamped a community-based nonprofit's website to raise awareness against bullying and substance abuse

### Robotics Mentor

Oct 2018 – Jan 2020

*FIRST Lego League*

*Montvale, NJ*

- Helped a local middle school robotics team with EV3 programming