

# Harshal Arakala

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## EDUCATION

### University of Virginia, Bachelor's in Computer Science

*Expected Completion: May 2026*

- GPA: **3.81**
- Relevant Coursework: Data Structures and Algorithms 1 & 2, Data Modeling, Discrete Math, Computer Systems and Organization, Macro & Microeconomics, Software Engineering, Cybersecurity Management, Database Systems

## EXPERIENCE

### Fullstack ML Intern, Costar Group, Richmond, VA

**Jun 2024 — Aug 2024**

- Developed throughout the full stack using React.tsx, TailwindCSS, Node.js, C#, and MySQL to create a data syncing machine learning system and a dashboard for Costar executives and business partners.
- Integrated AWS SQS queue and ElasticSearch data to train Llama for selective data backups, improving query speeds.
- Reduced load on Costar's primary enterprise database by **4%**, enhancing client experience and data retrieval times.
- Presented database sync improvements to the product team and executives, utilizing metrics and technical drawings to illustrate system improvements to **1000+** Costar researchers.

### Software Developer Intern, Acentle, Herndon, VA

**Jun 2022 — May 2023**

- Elevated web development expertise by mastering HTML, CSS, JavaScript, and modern frameworks, implementing a system to monitor bidding on government contracts, leading to a **10% increase** in development efficiency.
- Developed and sustained high-performance backend services in Java, supporting **100+ daily users** and ensuring reliable system functionality.
- Enhanced product strategy and user engagement through effective communication of product features and in-depth research on target users, resulting in tailored solutions that drove product adoption.

### Graduate Commerce 7371 Teaching Assistant, UVA, Charlottesville, VA

**Jan 2024 — Present**

- Facilitated sessions for financial reporting using Excel and Tableau, enhancing students' data extraction and visualization skills.
- Led **10+ workshops** on predictive analytics with Python and R, improving students' analytical competencies.
- Integrated real-world financial data into practical sessions using SQL, aiding students in data analysis and decision-making.
- Mentored **25 capstone projects** on financial machine learning applications using Python's scikit-learn and TensorFlow.

## PROJECTS

### Data Technical Team Lead, Business and AI Club UVA

**Aug 2023 — Present**

- Created an AI-driven mobile app named CavGPT that integrates UVA-proprietary services to facilitate course selection in a centralized system.
- Managed a team of **12 developers** in an AGILE environment to efficiently deploy services to support the course planning application.
- Connected to a Python backend using the OpenAI API and a database of class schedules and ratings to power the chatbot.
- Simplified course enrollment for over a **100 students** in a closed beta, achieving high satisfaction.

### Creator and Lead Developer, PrizePicks Bot

**Feb 2024 — Present**

- Engineered a PrizePicks automation bot with Python and Selenium to automate betting, increasing efficiency and generating over **\$35,000 in revenue** among 10 beta testers.
- Implemented advanced web scraping techniques and data monitoring capabilities, integrating OpenAI and Discord APIs to predict optimal unit sizes.
- Developed an automated notification system for tracking bets using remote data clusters, informing users via email and SMS.

### Founder & Technical Lead, Robotic Advancement for Youth (RAY)

**Jun 2018 — Present**

- Established a non-profit organization aimed at empowering students through hands-on, free robotics education at local schools and community centers.
- Organized summer camps with an average of **300 attendees annually**, fostering coding skills and robotics knowledge over the past six years.
- Conducted mock robotics tournaments for FTC and FLL, preparing **over 1,000 students** each year for competitions.

## SKILLS

- **Frontend:** Micro Frontends, JavaScript, HTML/CSS, React.js, AngularJS, Bootstrap, Django, React Native, Tailwind, TypeScript, Highcharts, Webpack, Localization
- **Middleware/Backend:** SQL, TensorFlow, Python, Java, C#, Elasticsearch, AWS, Node.js, Express.js, REST APIs, Server Architecture, Data Transfer Objects, Cloudwatch, Multithreading, Kafka, SQS Queue
- **Development/Leadership:** JUnit, Git, Microsoft Azure, Docker, Datadog, Kubernetes, FastAPI, BigQuery, Agile, ASP.NET, Babel, Bash