

# Sameer Chawla

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## EDUCATION

**The University of Maryland College Park**, College Park, MD

*Expected Graduation Spring 2026*

*B.S. in Computer Science | Minor in Philosophy*

Coursework: Object Oriented Programming, Computer Systems, Programming Languages, Computer Architecture, Algorithm Analysis, Harvard CS50 Certificate

## EXPERIENCE

**Dux - early-stage startup**

May 2024 - Present

*Full Stack Software Engineer Intern | Mongo, Express, Next, React, Node, TypeScript*

- Implemented the PayPal API to create an automatic payment system that handled over 100 users and guides through a RESTful API and webhooks
- Engineered the transaction schema and NoSQL database (MongoDB) logic for efficient data storage and display.
- Developed the initial landing page, increasing user retention by over 50%
- Designed and implemented responsive settings pages, profile settings, and guide cards to enhance user experience (UX).

## PROJECTS

**JSDTimer** | *React Native*

- Developed the timer functionality for a Rubik's cube timer app ensuring accurate and reliable performance, and designed the entire user interface for an intuitive and visually appealing experience.
- Implemented the settings page and its functionality, enhancing user customization and allowing for themes
- Designed analysis algorithms to enhance data display for each solution, optimizing user experience and usability.

**Shell** | *C, Linux*

- Developed a custom Unix-like shell in C with features including command execution, input/output redirection, and pipeline support.
- Implemented a command parsing mechanism to handle user inputs and execute external commands.
- Integrated process management features include job control, and background and foreground execution.
- Applied memory management practices to ensure efficient handling of dynamic input and output buffers.

**Boxing Trainer** | *Python, Keras, TensorFlow, Flask, React, Axios, TypeScript*

- Built a real-time AI model using Python, Keras, and TensorFlow to assess boxing movements via webcam.
- Integrated Flask for efficient data processing and API communication, leveraging RESTful principles.
- Created a responsive React interface using Axios to visualize boxing performance and track user progress.
- Emphasized cross-browser compatibility and performance optimization in the interface design.

## LEADERSHIP & EXTRACURRICULAR

**Bitcamp** | *Marketing Organizer*

October 2023 - Present

- Successfully organized the Bitcamp Hackathon at UMD, attracting over 2000 hackers and participants.
- Produced compelling promotional videos that garnered over 100,000 views, effectively boosting event turnout
- Coordinated marketing strategies and partnerships to ensure execution of the largest hackathon in the region.

## SKILLS

**Programming** | Python, HTML/CSS, C, Java, JavaScript, TypeScript, SQL, NoSQL(MongoDB), C++, C#, GoLang, Rust

**Frameworks** | Flask, Vue, React, Node, Express, React Native, TensorFlow, PyTorch

**DevOps** | AWS, Docker, Git, Agile, Scrum, Jira

## HONORS AND AWARDS

- AACC Java Competition: Awarded 3rd Prize (2023)
- PVSA: Presidential Volunteer Service Award (2020)
- Best Use of MongoDB: hackUMBC (2023)
- 4th in CloudForce - Azure AI track at HoyaHacks (2024)