

## Rohan Bajpai

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### EDUCATION

#### University of Maryland College Park

*Bachelor of Science in Computer Science (GPA: 3.8 (Honors), Dean's List Fall '21, Spring '22, Spring '23)*

Expected December 2024

### EXPERIENCE

#### Capital One, College Park, MD

September 2023 – Present

*Machine Learning Engineer Intern*

- Onboarding Capital One Lab Incubator working on researching, developing, and improving fraud detection models.

#### Amazon Web Services (AWS), Arlington, VA

May 2023 – August 2023

*Software Development Engineer Intern*

- Assisted with transition to **Kotlin**-based modern RESTful API for service that helps major AWS services like EC2 scale on-demand.
- Eliminated a 10+ day manual process by developing UI and API based self-service **MySQL** database credential rotation systems.
- Finished intern project, stretch goal, an additional project, and machine learning training within 12-week internship.
- Designed and integrated SSO authentication system for new service to reduce beta testing customer onboarding time by 90%.

#### Leidos, Reston, VA

June 2022 – May 2023

*Full-Stack Software Engineering Co-op*

- Developed a web app for predictive analytics visualization and data management serving **1000+** users on a team of seven.
- Managed **PostgreSQL** database and developed features using **Spring Boot**, **Thymeleaf**, **HTML**, **Bootstrap** and **CSS**.
- Developed public-facing REST API allowing for future applications to interface with the system.
- Wrote a **Python** script and API logic to import **10+ years** of customer files to the central application server (CAS).
- Setup secured access between CAS and Elasticsearch/Kibana while enabling single sign-on to enhance security and user experience.
- Setup automated **CI/CD** pipeline within GitLab to lint then generate PDFs from markdown documentation.
- Applied and refined innovative internal AI/ML research to define requirements and develop an RL-based automated firewall hardening product using **Python**, **Gym**, and **stable-baselines-3**.

#### Edlyft, Remote

February 2023 – May 2023

*Contracting Software Engineering Intern*

- Developed new features and fixed time-sensitive production bugs for Edlyft on Track after displaying exceptional performance as a technical mentor.
- Enhanced user experience by designing and developing new **React** components with **Tailwind CSS**, while leveraging **AWS** and **NodeJS** to implement scalable and robust business logic.

#### Mindgrasp, College Park, MD

October 2021 – June 2022

*Software Engineering Intern*

- Led the development of product [Chrome Extension](#) for on-the-go note selection and summarization using **HTML**, **CSS**, **JavaScript**, **jQuery**, and **Firebase** used by **100+** users.

#### Glimmr, Remote

July 2021 – February 2022

*Software Developer*

- Assisted in migrating website codebase from plain **TypeScript** to **React**, and mobile codebase from **React Native** to **Flutter**
- Wrote **75+** unit and integration tests using **Jest** resulting in **88%** code coverage.

#### Melp

Spring 2023 – December 2023

- Developed a **MERN** stack mobile app to help roommates live better together featuring bill-splitting, location-sharing, messaging, and chore tracking.
- Developed **Flask**-based microservice to OCR receipts using **Tesseract**, using **OpenCV** for image preprocessing to improve OCR results and a **GPT-3** fine-tuned model for OCR data normalization.

#### Marshall Science Fair Evaluator

May 2021

- Built science fair grading app from the ground up using **HTML**, **CSS**, **JavaScript**, and **Django**.
- Implemented personalized schedules for judges, authentication and authorization, support for different rubrics (science vs engineering projects), multi-judge evaluation, and a leaderboard based on average scoring.

#### Rohan's List

May 2021

- Full-stack auction-based ecommerce website with bidding, listing commenting, and searching functionality with **HTML**, **CSS**, **JavaScript**, and **Django**.

### CERTIFICATIONS

AWS – Certified Developer Associate, AWS – Certified Cloud Practitioner, **CompTIA** – Cloud Essentials+

### SKILLS

Kotlin, Java, Spring Boot, Python, HTML, Flask, Django, React, React Native, JavaScript, jQuery, Thymeleaf, Flutter, SASS, CSS, Bootstrap, Git, GitHub, GitLab, Docker, ELK stack, MongoDB, Agile methodology, C, Reinforcement Learning, Gym

### EXTRACURRICULAR ACTIVITIES

#### Hack4Impact, University of Maryland, College Park

August 2021 – Present

- Worked on designing and developing web applications for various non-profit organizations using **React**, **Airtable**, and **Firebase**.

#### XR Club, University of Maryland, College Park

August 2021 – December 2021

- Coordinated events reaching attendance of 200+ individuals.