Saipraneeth Mukku

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EDUCATION

University of Maryland, College Park   **Graduating December 2024**
Bachelor of Science in Computer Science, President's Scholarship Recipient   *College Park, MD*
- Earned business, society, and the economy citation from College Park Scholars.
- Relevant coursework: Object-Oriented Programming, Advanced Data Structures & Algorithms, Introduction to Data Science, Computer Vision, Web Application Development, Organization of Programming Languages

WORK EXPERIENCE

Amazon Web Services (AWS)   **May 2024 - Aug 2024**
Software Engineering Intern   *Arlington, VA*
- Worked on a service that pushes automatic user permission updates for supported AWS services. The service drastically reduced manual efforts by engineers, saving 100 hours per year of engineering time.
- Used **TypeScript** to configure AWS services, **Java/Kotlin** for implementing business logic, **AWS Lambda** and **API Gateway** for event-based triggers, **AWS CLI** as the main API endpoint, and **Smithy** to model endpoints.

UnitedHealth Group   **June 2023 – Aug 2023**
Software Engineering Intern   *Phoenix, AZ*
- Worked on a team to develop a full-stack project that visualized data from 10,000+ help desk/service tickets weekly for enterprise-level oversight, reducing managerial workload and saving managers 10 hours per week.
- Used **Vite** for front-end testing, **React** for component-based website architecture, **Python** (**Django**) and **PostgreSQL** for database management, and **Kubernetes** for deployment.

Army Research Laboratory   **June 2022 - Aug 2022**
Research Intern   *Baltimore, MD*
- Collaborated with fellow interns to address an engineering challenge: ensuring an autonomous drone's survival after a terminal velocity fall, followed by ground data collection.

EXTRACURRICULAR ACTIVITIES/PROJECTS

Quantitative Analyst at Apex Quant   **Sept 2023 - Current**
Software Team   *College Park, MD*
- Member of software team at University of Maryland's Apex Quant club. Software team is responsible for building infrastructure that streamlines trading strategies developed by the research and trading teams.
- The club leverages quantitative finance principles with effective and technology-driven strategies, utilizing the software team's products to automate trading and increase the initial investment in the club's portfolio.

Task Organizer Project   **August 2023 - November 2023**
- Led a team to engineer a full-stack project that dynamically lists and organizes tasks in a checklist. Stores tasks in a database, utilizes an interactive frontend, and is deployed online using Render.
- Used **Express** and **Node.js** for server management, **HTML** for development, **CSS** for styling, **EJS** for templating, **MongoDB** for real-time data storage, and **Render** for deployment.

SKILLS

Skilled in Python, Java [OOP], C, JavaScript (React, Node.js, Express), TypeScript, HTML, CSS, Ruby, OCaml, Rust, R, SQL, Kotlin, Linux/Unix, Git, AWS, Cloud Computing, UI/UX, Agile, Natural Language Processing, CI/CD, Web Scraping