



## SAIMA AHMED (she/her/hers)

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### PROFESSIONAL EXPERIENCE

#### Software Engineer

Washington, DC

##### Clearhaven Technologies

April 2023 – Oct 2023

- Working on contract with the Army Research Lab (ARL) to provide web app GUI, using **Node.js**, **Express.js** and **React.js**, for secured users to connect with sensor data throughout North America
- Worked to clean and stabilize interface through front end file restructuring, recreating **HTML** structures in **EJS** and **PUG**
- Deployed secure **DynamoDB** service on **AWS** from web app, using **Fetch API**, **Lambda**, and **API Gateway**
- Practiced safe and secure programming, set up secure server connections and coding in **Ubuntu** environment, as well as delegating **IAM** roles on **AWS**

#### Data Engineer Intern

Bristol, CT

##### Disney Media & Entertainment Distribution Ad Platforms Team

May 2022 – Aug 2022

- Worked to improve data pipeline by migrating processing tools and storage to **AWS** Cloud Services and **Apache** frameworks
- Implemented Streaming Data Storage through Kafka Topic and Log structures and real-time Data Conformance jobs using **Apache Flink** and **Kafka**, implemented in **Java**
- Restructured Apache Flink framework to improve latency and time by processing data straight to **Amazon S3** buckets, reducing conformance jobs by 2s
- Worked in **Agile Development** Environment, completing tasks in weekly Sprints, using **Jira** to manage workflow and collaborate

#### Junior Cloud Engineer + Outreach Officer

College Park, MD

##### Data and Cloud Computing Society, University of Maryland

Oct 2021 – May 2022

- Managed users, groups, and roles using **AWS IAM** and policy documents to securely control access to AWS services
- Develop full application stacks using cloud **UNIX** servers, **MySQL** databases servers, and cloud storage solutions using AWS services such as **RDS**, **EC2**, and **VPC**
- Configure **DNS network**, **URL pointing**, and **SSL/TLS** using **Route53**
- Managed and engaged students in a virtual environment, organized and coordinated professional and social events with sponsors

#### Web Developer

College Park, MD

##### University of Maryland Department of Resident Life

Feb 2020 – May 2022

- Improved project file structure and local/real-time access for developers by introducing Git and implementing **Git** controls to organize and maintain version control, transitioning from Google Cloud
- Upgraded content distribution and updating on front end by pioneering the use of **Drupal** to standardize UI
- Gained efficiency in front end design using **HTML**, **CSS**, **Bootstrap**, **React.js**, and **AWS EC2** for hosting
- Worked with clients to optimize and cater to specific needs such as accessibility of information for disabled individuals as well as tracking and improving user traffic using **Google Analytics**

### EDUCATION

#### University of Maryland, College Park –

College Park, MD

College of Computer, Mathematical, and Natural Sciences: **B.S. in Computer Science**

Aug 2019 - July 2023

**Relevant Coursework:** Object Oriented Programming, Advanced Data Structures, Linear Algebra, Discrete Mathematics, Computer Systems, Algorithms, Statistics, Machine Learning, iOS Development, Computer Architecture, Compilers

### TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, Python, R, C, Ruby, OCaml, Rust, Swift, Racket

**Web Dev:** MERN Stack: MongoDB, Express.js Node.js, React, JSON, AngularJS, **Design:** Figma, Spline, Three.js, Framer

**ETL/Cloud/Data Tools:** SQL, Hadoop, AWS Redshift, Snowflake, Apache Flink, Apache Spark, Apache Kafka, Pandas, NumPy, Tableau

**Certifications:** AWS Certified Cloud Practitioner, IBM Data Engineering Certificate (Audited)

**In Progress:** AWS Certified Developer, Oracle Certified Associate

### PROJECTS - [GitHub](#)

#### Does Drake “Only Make Music for Girls”?

- Created a Machine learning Binary Classifier trained on internet data to classify whether Drake’s music is “for girls” vs. “for boys”
- Lyrics fetched using Genius API, cleaned and organized using Pandas & NumPy, classifier trained and analyzed using Natural Language ToolKit NLTK, Word2Vec, Sci-Kit

#### CalorieTracker

- iOS app written in Swift used for logging meals, daily calorie intake, goal projection, diet planning
- created using **Swift Views**, **Firestore**