

# MD RASHIDUL ALAM SAMI

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## EDUCATION

### The University of Texas at Arlington

Bachelor of Science in Software Engineering Honors, Minor in Data Science, CGPA: 3.87

Relevant Coursework: Data Structure & Algorithms, Software Engineering, Operating Systems, Discrete Structures;

Arlington, TX

Expected May 2026

## TECHNICAL SKILLS

**Programming:** Python(Pandas, Numpy, Matplotlib, Scipy) | Java | C | C++ | C# | JavaScript | SQL | HTML/CSS | Matlab

**Technical Skills:** Linux | Git | ReactJS | Django | Flutter | React | Firebase | Bootstrap | Git | Mongo | Anaconda

**Software/Tools:** Anaconda | Android Studio | Adobe Suites(Photoshop, Premiere Pro, After Effects)

## PROJECTS

### UTA Datathon Website | [UTA Datathon](#)

Mar 2024

- Managed the development of the UTA Datathon 2024 website, utilizing **Firebase** backend and **React.js** frontend; established secure sign-in with unique QR code registration, streamlining entry for over 400 students.
- Leveraged **Google Maps API** to develop an interactive venue map, enabling users to easily locate venues and optimizing the user experience; increased user satisfaction and engagement.

### Brainwave | [GitHub](#)

Mar 2024

- Spearheaded the creation of Brainwave website, utilizing **React.js** and **Tailwind CSS** with **Vite** for swift development; used modern design principles, sleek interface, seamless animations, and intuitive UX, resulting in a 50% boost in user retention rates.

### LunGuardian | [HackUTA](#)

Oct 2023

- Led development of early lung cancer detection tool with wrist sensors, ML, and **Apple's HealthKit API**; implemented Firebase Firestore, reducing late-stage diagnoses by 45%, increasing patient recovery by 20%, with 96% accuracy for 310 patients' data.
- Engineered a **MATLAB** algorithm to precisely identify coughing patterns, incorporating advanced data visualization techniques to generate detailed graphical representations, enhancing detection accuracy by 45%.

### Library Management System | [GitHub](#)

Aug 2023

- Engineered a **Java-based GUI** application adhering to OOP principles, streamlining library operations and boosting efficiency by automating cataloging processes, resulting in a 40% reduction in manual data entry tasks.
- Championed the deployment of an intricate set of **SQL** queries in the Library Management System, streamlining the process of adding, managing, and accessing loan information, contributing to improved functionality and user satisfaction metrics.

### StateFarm PWA | [HackUTA](#)

Oct 2022

- Facilitated a mobile-responsive website modeled after the State Farm app, enabling seamless exploration of services.
- Architected a seamless and responsive user interface for the website through **HTML**, **CSS**, and **Angular**; leveraged AngularFire integrated with Firebase to handle user accounts and data storage, enhancing operational efficiency and user engagement metrics.

## WORK EXPERIENCE

### Office of Information Technology

Technology Assistant

The University of Texas at Arlington

Oct. 2022 – Present

- Orchestrated campus-wide tech support services for over 42,000 users, managing installation, setup, and configuration of standard hardware and software, resulting in a 25% decrease in IT-related downtime.
- Orchestrated the backend operations for university devices by deploying **Adobe Intune**, **Microsoft Azure AD**, and **Jamf connect**.
- Directed the optimization of 39,000+ customer records onto the **Service-Now** ticketing system, enhancing data accessibility.

### Abacus Cloud and Edge Systems Lab (ACES)

Undergraduate Research Assistant

The University of Texas at Arlington

May 2023 – Sept. 2023

- Directed projects focused on network architecture and design, utilizing **Kubernetes** for enhanced resource management; implemented load balancing mechanisms, resulting in a 35% increase in network speed and a 20% reduction in server response time.
- Architected and executed a cutting-edge data simulation system leveraging **Raspberry Pis** and **K3s** technology;
- Created a visually appealing web page illustrating weather data for 50+ counties through a map design sourced from a **JSON** file.

## ACTIVITIES

### Honors College Programming Board

Coordinator

Arlington, TX

Aug. 2023 – Dec. 2023

- Directed seamless planning and execution of on-campus Honors events, optimizing logistics and activities to ensure attendance of 40+ students; elevated student engagement and satisfaction levels.

### Iccha Charity Foundation - Non-Profit Organization

Founder and Executive Advisor

Dhaka, BD

Apr. 2020 – Present

- Initiated and guided 'Iccha Charity Organization', driving a Covid-19 humanitarian response via 30+ events; managed revenues over \$2,500 to deliver crucial support to underprivileged individuals, homeless, and jobless populations.