

AHNAF AHMAD

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Education

University of Texas at Arlington

B.S Computer Science, Cum Laude honors

Aug 2020 – May 2024

Arlington, TX

Technical Skills

Backend Development Languages: Python, Java, C, C++, C#, Swift, SQL

Frontend Development Languages: HTML, CSS, JavaScript, TypeScript

Databases: MySQL, SQLite, MongoDB, PostgreSQL, NoSQL

Frameworks: Node.js, React, Next.js, Angular, Spring Boot, .NET, Django, Flask, JUnit, Scscikit-learn, Keras, PyTorch, OpenCV

Developer Tools: AWS, GCP, VS Code, XCode, Linux, Git, JSON, XML, REST, HTTP, Docker, Postman

Software Development Methodology: Agile, Scrum, Waterfall

Projects & Experiences

Music Recommendation System | *Python, Django, Next.js, React, TypeScript, AWS*

May 2024

- Developed a full-stack web application delivering song recommendations based on user input.
- Built a responsive frontend using **Next.js, React, and TypeScript**, providing a seamless user experience.
- Implemented a robust backend with **Python** and **Django**, utilizing **object-oriented programming**, **pandas**, **numpy**, and a **KNN algorithm** trained on **Spotify Web API** data for music recommendations.
- The frontend was hosted on **AWS Amplify** and the backend **REST API** was hosted on **AWS EC2**.

Sneaker Inventory Manager | *Java, Spring Boot, React, MySQL*

May 2024

- Developed a full-stack web application, to track sneaker inventory, sale, and profit.
- Built the backend using **Java, Spring Boot**, and **MySQL**, utilizing **object-oriented programming**, and deployed a **REST API** for efficient data management and retrieval.
- The frontend was implemented using **React** to provide a dynamic and responsive user interface.

Surgical Equipments RFID Tracking System | *Java, React, MySQL, AWS*

September 2023 - April 2024

- Developed a real-time full-stack surgical equipment tracking web application utilizing RFID tags and RFID scanners.
- Used **MySQL** database from **AWS RDS** to store tracking information and other sensitive information.
- The backend was developed using **Java** and **Jakarta RESTful web services**, utilizing **object-oriented programming** and the frontend was developed using **React** to provide a dynamic UI.
- Applied **Scrum** methodology to collaborate effectively with the team, ensuring deadlines were met and the development process was continuously improved.

Phonebook Input Validation API | *Python, Flask, SQLite, Docker*

March 2023 - April 2023

- Developed a **REST API** that validates inputs (name and phone numbers) using RegEx and stores those valid inputs in a phone book.
- The REST API was developed using **Python** and the **Flask** framework.
- The phone book used **SQLite** database to store inputs.
- Used RegEx to validate inputs for POST, and PUT Requests.
- Utilized **Docker** for API packaging and Postman to test the API.

Natural Disaster Tracker Android App | *Java, XML, Android Studio*

January 2022 - May 2022

- Designed and developed an android app that presents real-time updates and tracking on 4 categories of natural disasters: wildfires, earthquakes, hurricanes, and volcano activities.
- The backend was developed using **Java**, utilizing **object-oriented programming**, leveraging data from **NASA EONET API** and **Google Maps API**.
- The frontend was developed using **XML** for layout design, supported by Java and the Android SDK for logic and functionality.
- Led the frontend development of the application.

Certifications

AWS Certified Cloud Practitioner

Exp. Aug 2026

Amazon Web Services (AWS)