

# Muneeb Arif

## Software Engineer

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### PROFILE

Software Engineer with experience building production-grade frontend applications using Angular and React with modern JavaScript and TypeScript. Strong foundation in data structures, databases, and system fundamentals, with exposure to AWS and backend development using FastAPI. Seeking software engineering internship or junior software engineer roles.

### TECHNICAL SKILLS

#### Core Engineering

- Data Structures and Algorithms: Graphs, B+ Trees
- System design fundamentals and trade-off analysis
- Database normalization and query optimization

#### Frontend Development

- React, Angular, RxJS
- JavaScript (ES6+), TypeScript, HTML, CSS
- State management and REST API integration

#### Backend and Cloud

- FastAPI, REST APIs, OAuth2, JWT, PKCE
- PostgreSQL (SQL), NoSQL basics
- AWS core services, Git, CI/CD basics

### EXPERIENCE

#### Frontend Engineer

Jan 2024 - Dec 2024

Cell Tech (Remote)

- Developed and maintained reusable Angular components for core user flows, improving consistency across the platform.
- Integrated REST APIs to build dynamic, data-driven UI components with complex state requirements.
- Refactored legacy modules using modern TypeScript features, reducing technical debt.
- Collaborated with backend developers and designers in a distributed team environment.

#### Mobile Application Developer (Intern)

Jun 2023 - Aug 2023

Higher Education Commission, Pakistan

- Contributed to mobile application features with a focus on usability, accessibility, and performance.
- Implemented UI components and integrated application logic with backend services.
- Debugged critical issues and improved application stability during release cycles.

#### Volunteer - Facilities and Operations

2022 - 2023

Academic Environment

- Supported operational and facilities tasks, demonstrating reliability, ownership, and teamwork.

### KEY ENGINEERING PROJECTS

#### MiniDB - Custom Database Engine

Built a simplified database engine demonstrating internal storage, indexing, and query execution mechanisms.

#### Custom OAuth Authorization Server

Implemented complete authentication flow including token issuance, refresh tokens, and PKCE-secured client access.

#### Distributed Transaction Simulator

Simulated distributed consistency through transaction coordination, rollback mechanisms, and failure scenarios.

Source Code: [github.com/munneb10](https://github.com/munneb10)

### EDUCATION

#### MSc Computer and Systems Sciences

2025 - Present

Stockholm University, Sweden

#### BSc Software Engineering

2020 - 2024

PMAS Arid Agriculture University, Pakistan

### CERTIFICATIONS

- Architecting Solutions on AWS - Amazon Web Services
- Mathematics for Machine Learning - DeepLearning.AI
- IBM Data Science Professional Certificate - IBM