Muneeb Arif

Software Engineer

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PROFILE

Software Engineer and Master's student with professional experience building production-level frontend applications using Angular and modern JavaScript. Strong foundation in data structures, databases, and system fundamentals, with hands-on exposure to AWS and full-stack development. Actively seeking software engineering internships or junior roles.

TECHNICAL SKILLS

Core Engineering
- Data Structures & Algorithms (B+ Trees, Graphs)
- System Design Fundamentals & Trade-off Analysis
- Database Normalization & Query Optimization

Frontend Development
- JavaScript (ES6+), TypeScript, HTML, CSS
- Angular (Component Architecture, RxJS)
- State Management & API Integration

Backend & Cloud
- SQL (PostgreSQL), NoSQL Basics
- REST APIs & Authentication (OAuth, JWT)
- AWS (Core Services), Git, CI/CD Basics

EXPERIENCE

Frontend Engineer — Cell Tech (Remote)
- Developed and maintained reusable Angular components for core user flows, improving code consistency across the platform.
- Integrated REST APIs to build dynamic, data-driven UI components with complex state requirements.
- Refactored legacy modules to utilize modern TypeScript features, reducing technical debt and improving maintainability.
- Collaborated with backend developers and designers in a remote distributed team environment.

Mobile Application Developer (Intern) — 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.
- Collaborated with senior developers to debug critical issues and improve application stability during release cycles.

Volunteer: Facilities & Operations — Universities & Community Orgs
- Supported operational and facilities tasks in academic environments, demonstrating reliability and teamwork.

KEY ENGINEERING PROJECTS

Source code available at: **github.com/munneb10**

MiniDB - Custom Database Engine — TypeScript · B+ Trees · Disk Pages

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

Custom OAuth Authorization Server — TypeScript · OAuth2 · PKCE · JWT

Implemented a complete authentication flow including token issuance, refresh tokens, and PKCE security for secure client access.

Distributed Transaction Simulator — TypeScript · Saga / Two-Phase Commit

Explored distributed consistency by simulating transaction coordination, rollback mechanisms, and failure scenarios.

EDUCATION

M.Sc. Computer and Systems Sciences — 2025 - Present
Stockholm University, Sweden

B.Sc. Software Engineering — 2020 - 2024
PMAS Arid Agriculture University, Pakistan

CERTIFICATIONS

Architecting Solutions on AWS: Amazon Web Services — Jul 2023
Mathematics for Machine Learning: DeepLearning.AI — Jul 2023
IBM Data Science Professional Certificate: IBM — 2023