Syed Aun Abbas

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EDUCATION

MS Computer Science - The George Washington University   **Aug 2023–May 2025**
Honors & Awards: SEAS Dean's Award
BS Computer Science-National University of Computer and Emerging Sciences   **Aug 2019-June 2023**
Honors & Awards: Dean's List 3/8 semesters

Area of Expertise

Coursework: Software Development, Machine Learning, Distributed Data Engineering, Algorithms and Data Structures, Object Oriented Design and Analysis, Operating Systems, Blockchain, Automata, Databases, DevOps, Assembly Language, Information Security, Cloud Computing, Data Mining
Languages/Frameworks:Python,Java,TypeScript,React.js,Node.js,Next.js,Express.js,
C++,C#,.NET, Solidity, Tailwind CSS, Spring Boot
Databases: MySQL,MongoDB,PostgreSQL, Ethereum
Tools/Services: Git,Docker,AWS,RestAPI,GraphQL,Github Actions, Linux

WORK EXPERIENCE

iD Tech   **Princeton, New Jersey**
On Campus Instructor   June 2024 - Aug 2024
- Successfully designed and delivered **AI/ML** courses, resulting in the proficient training of over 30 students, with a 100% positive feedback rate
- Empowered students to develop proficiency in **Python**, **Linux**, **TensorFlow**, **Keras**, and **NVIDIA Jetson Nano**, enabling them to build and deploy machine learning applications

National Information Technology Board   **Islamabad, Pakistan**
Full Stack .NET Developer Intern   June 2022-Aug 2022
- Contributed to the development of a User Management Module designed to streamline user onboarding, role-based access control, and account management for internal administrative tools
- Engineered back-end services in **C#** and the **.NET** Framework, integrating with external APIs and implementing business logic for secure user authentication and data management
- Optimized **SQL Server** queries by implementing effective indexing strategies, reducing database response times by 40% and improving overall application performance

Projects

Final Year Project - MedChain *Github*
A decentralized healthcare management ecosystem-integrated with a smartwatch to track incentivized fitness goals
- Stored encrypted records of patients on **IPFS, MongoDB** and **Ethereum** blockchain
- Utilized **Solidity** and **Node.js** for crafting **smart contracts** that granted limited access to doctors
- Explored complex cryptosystems such as **proxy re-encryption** for secure data exchange
- Integrated app with a smartwatch via **Google Fit**, enabling monitoring and tracking of users' fitness activities
- Introduced a cryptocurrency-based reward system which boosted user participation by 50%

Project Management App (JavaScript) *Github*
- Developed a robust full-stack **CRUD** app using **MongoDB**, **GraphQL**, **Apollo** and **React**
- Achieved a 30% improvement in real-time data interaction efficiency by utilizing **GraphQL** queries
- Built a **CI/CD pipeline** using **GitHub Actions** for automated testing and deployment

Pitchify - Startup Idea Platform (Typescript) *Github*
- Developed a platform for entrepreneurs to showcase startup ideas using **Next.js**, **React**, **Sanity CMS**
- Integrated **NextAuth** for GitHub authentication and **Sentry** for real-time bug tracking
- Boosted page load speed by ~35% with **partial pre-rendering**, improving SEO and UX
- Built a sleek, scalable UI with **TailwindCSS**, **ShadCN**, and **TypeScript**

Smart Resume Screener (Java) (Private repo-available upon request)
- Developed a full-stack resume screening tool with **Spring Boot** REST APIs, **JWT authentication**, and secure file uploads via **MultipartFile**
- Tracked resume/job metadata in **PostgreSQL**, with dynamic file storage and user-scoped access using **Spring Security**
- Designed for integration with a **Python-based AI microservice** (**OpenAI**) for semantic matching

Leadership Experience

Entrepreneurship Project Manager
- Led a team of 6 to launch a Spotify Plaques business venture for a course project
- Curated engaging social media content, yielding 1000+ followers and 30000+ PKR business revenue