JAHAN ZAIB AHMED
SOFTWARE ENGINEER

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SUMMARY

Software Engineer with a strong aptitude for learning and implementing innovative technologies. Proven ability to lead projects from initiation to delivery, with a focus on user-centric solutions and cross-functional team coordination. Skilled in utilizing modern tools and agile methodologies to optimize workflows, drive efficiency, and enhance stakeholder satisfaction.

TECHNICAL SKILLS

MERN	Notion	Blockchain
AWS	JIRA	JavaScript
Python	SCRUM	Git and GitHub

PROJECTS

Coronary Artery Blockage Detection
- Website Development using Nodejs and React.
- Deep-learning model using pytorch.
- Fusion model to combine results of two deep-learning models to deduce final result.

Cloud Hosted Blog Application -MERN
- Built a full-stack blog platform using React, Node.js and DynamoDB supporting user authentication and post CRUD operations.
- Deployed backend via Docker on AWS EC2, and frontend via Elastic Beanstalk using a production build.
- Integrated Amazon S3 for Image storage and configured IAM and security groups for secure access control.
- Followed cloud-native deployment practices, utilizing AWS SDK v3, VPC and env-configure.

IRIS:The Plant Management System
- Designed and optimised a plant Inventory and management system.
- Coordinated testing and validation, ensuring compliance with industry standards.
- Used JavaScript, mongoDB, React.

FAST University Management and Events Portal
- Built a full-stack university management platform using Node.js, React and mongoDB.
- Coordinated testing and validation, ensuring compliance with industry standards.
- Used JavaScript, mongoDB, React.

Ethereum Based Blockchain System – Go
- Built a scalable blockchain with adaptive Merkle forests, dynamic sharding, and cross-shard state synchronization.
- Designed a hybrid consensus mechanism combining PoW and dBFT with Byzantine fault tolerance and zero-knowledge proofs.
- Implemented adaptive CAP optimization with real-time consistency tuning and entropy-based conflict resolution.

EDUCATION

Bachelors in Computer Science
National University of Computer and Emerging Sciences - FAST
- OOP, Data-Structures, Technopreneurship, Fundamentals of Management and Project Management.

CERTIFICATIONS

- AWS Cloud Practitioner and Fundamentals.
- Foundations of Project Management Coursera
  Google Career Certificates

ACHIEVEMENTS

- Organized Speed Computing Event at NASCON'24.
- Organized Devil's Lair at Nascon'25