SHAHIL MOHAMMED

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EDUCATION

Arizona State University, Tempe, AZ, USA   **08/2022 – 05/2024**
Master of Science in Computer Science   CGPA: 4.0/4.0

Manipal Institute of Technology, Manipal, KA, India   **07/2018 – 07/2022**
Bachelor of Technology in Computer and Communication Engineering   CGPA: 8.83/10.0

TECHNICAL PROFICIENCY/SKILLS

- **Programming & Scripting**: JavaScript, Java, Python, C#, C++, Go, C, Shell Scripting.
- **Web Development & Frameworks:** HTML, CSS, TypeScript, React.js, Angular.js, Node.js, Spring Boot, .NET, Laravel.
- **Database & Data Storage:** SQL, MySQL, PostgreSQL, MongoDB, DynamoDB.
- **DevOps & Automation:** Docker, Amazon Web Services, Azure, Lambda, EC2, S3.
- **Tools & Other Technologies:** Linux/Unix, Git, GitHub, Jira, Junit, SOAP, REST API, JSON.

PROFESSIONAL EXPERIENCE

Software Developer, Profile DM, Inc., Austin, TX   **06/2025 – Present**
- Contributed to building responsive and accessible user interfaces using React, ensuring alignment with product design and requirements.
- Refactored backend services and APIs to handle higher traffic, improving reliability during peak usage and cutting downtime by 25%.

Software Developer, HomeTree Digital, Inc., Austin, TX   **06/2024 – 06/2025**
- Architected a **SaaS** tool to generate data visualization videos, supporting 50+ concurrent user sessions using **Laravel** and **React.js**.
- Automated stock market capitalization data retrieval using **Python** and Yahoo Finance API, processing 10,000+ stocks daily.
- Built a multi-tier e-commerce subscription platform using **Stripe** and **WooCommerce**, enabling role based access control.
- Developed data pre-processing algorithms, reducing preview generation time to 20 seconds and boosting video rendering speed by 50%.

Software Engineer Intern, Amrock, LLC., Detroit, MI   **05/2023 – 08/2023**
- Executed API calls in **TypeScript**, achieving sub-100ms average response time, ensuring seamless data exchange.
- Upgraded existing platform using **Angular.js**, resulting in a 25% rise in user engagement and satisfaction.
- Established high-performance backend in **C#** with **.NET** framework resulting in 30% reduction in data retrieval latency.
- Optimized **PostgreSQL** stored procedures, reducing frontend load by 15%, streamlining database operations.

Full Stack Software Engineer Intern, Apice Tech Pvt. Ltd., New Delhi, India   **01/2022 – 06/2022**
- Led a 5-member team to develop a **SaaS** tool that automates the software development lifecycle (**SDLC**) process.
- Developed **microservices** in **Java** with **Spring Boot** framework and integrated with **Oracle SQL** database, supporting 1000 concurrent users and reducing response time to less than 200 milliseconds.
- Organized **CI/CD** pipelines to enable seamless deployment of 6 key microservices on **AWS EC2** servers using **Docker**.
- Built project tracking and management user interface in **React.js**, improved usability and page load speed by 30%.
- Implemented unit tests for pipelines module with **Junit** framework with approximately 90% test coverage.

PROJECTS

Elastic Face Recognition IaaS | AWS, EC2, S3, SQS, IAM, Python | [Link](#)
- Engineered a scalable face recognition system on **EC2** with **SQS** to decouple frontend and backend, implemented custom auto-scaling to handle 1000 requests in under 60 seconds, and used **S3** for data persistence.

Inventory Management System | Django, React.js, SQLite3, JWT, Netifly, PythonAnywhere | [Link](#)
- Created an inventory management system using **Django** and **React.js**, increasing tracking efficiency by 25%, benefiting more than 100 users with advanced filtering and secure authentication using **JWT**.
- Streamlined data management for 500 inventory items, boosting operational efficiency and accuracy of inventory updates.

Online Teaching Platform | Java, WebRTC, Socket.IO, Neo4J, Nodemailer, Android Studio | [Link](#)
- Devised an online teaching application on **Android** with attention tracking, delivering improved engagement data for over 100 students.
- Setup video calls and real-time messaging with **WebRTC** and **Socket.IO** to improve usability by more than 35%.

LEADERSHIP EXPERIENCE

Graduate Teaching Assistant, Arizona State University, Tempe, AZ   **10/2023 – 05/2024**
- Led a 3-member team as a Graduate Teaching Assistant for a high-demand graduate course, Information Assurance and Security.
- Conducted 15+ interactive online sessions to explain complex topics like Cryptography, Networking protocols, Web Security.