Md Awsaf Alam

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Professional Summary

Passionate software engineer with 6 years of experience in designing and implementing scalable backend architectures and full-stack solutions. Proficient in the MERN stack, Next.js, TypeScript, Node.js, MongoDB and MySQL. Demonstrated success in leading projects from inception to deployment, contributing to significant user growth and operational efficiency. Currently expanding expertise on Generative Ai and MLOps

Experience

Tech Lead, Sourcy Global Ltd. — Feb 2024 – Present

- Delivered a social media insights platform for TikTok and Instagram, integrating AI agents with continuous data pipelines, enhancing operational efficiency.
- Automated growth experiments and implemented dynamic catalog features, reducing customer wait times by 90% through intelligent search algorithms and proactive data scraping.
- Upgraded infrastructure to achieve 70% back-office process automation and improved sourcing recommendation accuracy to 80%.
- Scaled systems to handle a 30% month over month increase in transaction volume by optimizing cloud infrastructure and leveraging serverless functions.
- Introduced comprehensive monitoring systems, improving platform reliability and reducing downtime by 25%.

Full Stack Engineer, Sourcy Global Ltd. — Aug 2023 – Jan 2024

- Designed and implemented the backend architecture for Sourcy.ai, enabling robust and efficient data handling.
- Created generative AI-powered data-validation pipelines, streamlining workflows and reducing manual tasks.
- Developed a modular microservices architecture, ensuring seamless feature integration and improved system maintainability.
- Optimized database performance, reducing query response time by 40% through normalization, indexing, and caching strategies.
- Automated data ingestion and enrichment with custom web-scraping API, improving final recommendation accuracy and processing time.
- Implemented CI/CD pipelines and testing frameworks, ensuring consistent deployment quality and minimal downtime.

Senior Software Engineer [Part-Time], Boomershub LLC — Jun 2022 – Jan 2024

- Transitioned the frontend from a legacy React application to Next.js, improving SEO and web performance.
- Enhanced user experience and site responsiveness through optimized code and best practices.

Founding Software Engineer, Sohopathi Pte Ltd — Oct 2020 – March 2023

- Designed the backend architecture for Sohopathi's web and mobile applications, ensuring scalability and reliability.
- Defined API specifications and led backend development, facilitating seamless integration across platforms.

Software Engineer, Mainframe Labs Ltd. — Dec 2019 – Sept 2020

- Worked in a full-stack role, primarily using JavaScript, to develop and maintain web applications.
- Collaborated with cross-functional teams to deliver high-quality software solutions.

Junior Software Engineer, Headless Technologies — Apr 2019 – Nov 2019

- Contributed to backend development and dashboard functionalities.
- Assisted in developing core chatbot architectures, enhancing user interaction capabilities.

Education

MSc. Computer Science & Engineering, Bangladesh University of Engineering & Technology	April 2021

Specialization: Advanced Dependable and Fault-Tolerant Computer Systems, Network Security, Distributed Computing Systems, Software Quality Assurance

BSc. Computer Science & Engineering, Bangladesh University of Engineering & Technology	Jan 2016

Research Works

1. Automated Code Repair *A research project which aims in automatic code repair using NLP approach by analyzing associated code reviews to suggest fixes*

2. Empirical Study of Playstore app reviews for COVID-19 tracing applications

3. Resource Management Schemes for Distributed database in cloud native environment

Projects

GitMiner   githubMiner
- A web crawler for detecting and gathering code in different repositories. and storing them locally
- Tools Used: Python, Scrapy

Taint Analysis for Automated Code Repair   openrefactory.com
- Analyzed Java libraries to build a dataset for training automated code correction models.
- Tools Used: Java, SQL, Python

Web Automation Scrapper   web-automation
- Automated Pipeline to Scrap data from various healthcare facility websites in the US, and a searchable interface for users to find those properties
- Tools Used: Python, Nodejs, Sequelize, Docker

Additional Experience And Awards

- Winner - **MIT Solve, Tiger Challenge, 2019**

- Champion - **GDG HackSprint, 2018**

- Champion - **Tech For Peace Hackathon, 2016**

Technologies

Languages: Typescript, NodeJs, Express, React, SQL, MongoDB Python, Docker, AWS

Patterns & Practices: Object Oriented Programming, Functional Programming, CI & CD, DevOps, Generative AI, Microservices, Agile, scrum

References

- **Dr. Anindya Iqbal**, *Associate Professor* at Department of CSE, BUET

- **Tanmoy Basak Anjan**, *Chief Technology Officer* at Headless Technologies Ltd.