M. SHAHZAIB MINHAS

Senior Software Engineer

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SUMMARY

An experienced Software Engineer with 4+ years in full-stack development. I am deeply interested in designing solutions to complex problems. In my recent projects, I have utilized LLM models and applied RAG techniques to integrate generative AI into software products. I have a proven track record in leading teams and delivering high-quality projects.

TECHNICAL SKILLS

Tools & Technologies: Node.js, Nest.js, Express.js, Django, OpenAI, LLM, LangChain, AWS, Lambda, EC2, S3, Flutter, React.js, Angular, MySQL, PostgreSQL, PostGIS, PgVector, MongoDB, Firebase, Google Maps

Programming Languages: Python, JavaScript, Typescript, Dart

EXPERIENCE

Code District   Lahore, Pakistan
Senior Software Engineer   Jan 2022 – cont.

- Developing and maintaining web applications using diverse technology stacks. Facilitating Agile/SCRUM process and leading sprint planning, stand-ups, and retrospectives to ensure team alignment and continuous improvement.
- Working with the pre-sales team for requirement gathering, feature listing, and project estimation.
- Leading code reviews and mentoring junior developers to improve code quality and maintainability.
- Conducting interviews for new hires for SE and ASE posts.
- Troubleshooting architectural challenges and performance problems to ensure optimal application performance.

Venture Studio   Dubai, UAE
Software Engineer (Remote)   Nov 2020 – Jan 2022

- Worked closely with clients to elicit requirements and design mobile applications using Flutter, Node.js backend, and software architectures.
- Collaborated with designers, project managers, and QA engineers to deliver high-quality products on time and within budget.
- Collaborated with remote teams using Slack, Jira, and video calls.

EDUCATION

COMSATS University, Islamabad   Lahore, Pakistan
MS Computer Science   Sept 2021 – Jan 2024

COMSATS University, Islamabad   Lahore, Pakistan
BS Computer Science   Sept 2016 – July 2020

SOME NOTABLE PROJECTS [view more in portfolio]

Pharmasift – Artificial Intelligence [visit site]   2024
@ Code District

- Pharmasift provides searchable access to all Office of Prescription Drug Promotion (OPDP) enforcement action letters, their available corresponding promotional materials, the Code of Federal Register (CFR), and guidance documents.
- We developed a document analysis tool and a chatbot utilizing the Pharmasift knowledge base to analyze promotional materials and respond to user queries using retrieval-augmented generation (RAG) techniques.
- As a Technical Team Lead, I was responsible for training my team in emerging technologies and ensuring a smooth development and deployment of the project.
- **Tools Used:** Python, LangChain, OpenAI, PostgreSQL, PgVector, AWS, Lambda, EC2, S3

Dopple – E-Commerce Store [visit site]   2024
@ Code District
- Dopple is a Shopify store specializing in parental products, including those sourced through dropshipping from partner vendors.
- We implemented a dropshipping solution that allowed the system to communicate with partner vendors' SFTP servers via EDI (Electronic Data Interchange) files.
- This solution streamlined order placement, fulfillment, and shipment processes, significantly reducing the need for manual administrative tasks.
- **Tools Used:** Python, Django, Shopify Restful & GraphQL APIs, PostgreSQL

Data Tools – Research Platform   2023
@ Code District
- Developed a tool for tracking emails within recipients' inboxes, monitoring email delivery to determine whether they reach the inbox or are classified as spam.
- Implemented advanced filtering capabilities based on dates and keywords found in the email subject and body.
- Designed to fetch emails in real-time from Gmail, GSuite, and Office 365.
- Generates comprehensive reports for specified dates.
- **Tools Used:** Node.js, IMAP, Google Authorization, Microsoft Authorization, PostgreSQL, React.js

Valis Bioscience – Research Platform [visit site]   2022
@ Code District
- Valis specializes in enhancing mental health, CNS, and Rare & Orphan disorder treatments through advanced measurement tools and data analysis.
- We developed their two key products: ACAM and ECOA, which are being utilized in clinical trials for data capture and analysis.
- My responsibilities included managing the Node.js backend and React.js frontend of applications, integrating features, and resolving issues for Valis partners.
- **Tools Used:** React, React Native, Angular, Node.js, MongoDB, PostgreSQL, AWS

My Mates – Cross Platform Mobile Application [view on play store]   2021
@ Self-Employed (self-initiated)
- At My Mates, we strive to build a professional community where we can collaborate with people having relevant skillsets. Users can find resources having relevant technologies and skills.
- **Tools Used:** Flutter, Node.js, Express, MongoDB, Firebase Cloud Messaging, Google AdMob

CERTIFICATIONS [view more in portfolio]

Deep Learning [view]   July 2023
DeepLearning.AI | Coursera | Specialization

Software Product Management [view]   Feb 2021
University of Alberta | Coursera | Specialization

Flutter & Dart - The Complete Guide [view]   Dec 2020
Academind | Udemy | Specialization

Developing Applications with Google Cloud Platform [view]   Sept 2020
Google Cloud | Coursera | Specialization

ADDITIONAL

Professional Skills: Software Development, Project Management, Logic Building, Software Design/Architecture, Database Design, Requirement gathering, Documentation

Personal Skills: Team Player, Leadership, Communication, Self Learning