

Muhammad Hassan Nadeem

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"Seeking highly technical roles focused on engineering, research, and product development."

EXPERIENCE

Principal Software Engineer

Auxcube Private Limited

Feb 2024 – present

(Hybrid) Islamabad, Pakistan

- **Developed the Credit Decisioning Engine** for Porchpass, Braustin Homes, integrating advanced algorithms to improve credit assessment accuracy and efficiency.
- **Optimized application performance** by using X State Machines to automate app flows, resulting in more streamlined and reliable user interactions.
- **Led the engineering team** in utilizing code generation technologies to automate the creation of data domain models, significantly reducing development time and ensuring consistency across projects, while consistently meeting critical deadlines.

Technologies — Python | Next 14 | Hasura | GraphQL | XState | Nest | Terraform

Software Engineer

Septem Systems Private Limited

Aug 2022 – Jan 2024

Lahore, Pakistan

- Initiated and successfully advanced the development of a cutting-edge pharmaceutical portal from inception to its Minimum Viable Product (MVP) stage. This innovative platform was designed to seamlessly integrate intricate data streams sourced from multiple channels. It offered functionalities to conduct sponsored studies, meticulously adhered to regulatory standards, and implemented stringent user access controls through an advanced Identity and Access Management (IAM) system.
- Led a comprehensive overhaul of the ESG reporting platform. I developed a suite of algorithms dedicated to data collection, analysis, and reporting (CAR), data visualizations and graphing. This integration significantly enhanced the platform's ability to showcase Environmental, Social, and Governance (ESG) data required for international compliance standards.
- Created system design specifications and architecture documents, API Documentation (Swagger, OAS3.0) for multiple projects.

Skills — C++ | Python | React | Node.js Express | Highcharts JS | PostgreSQL (Sequelize ORM) | MongoDB (Mongoose) | Linux Server Management | TensorFlow

Software/Data Engineer

ML Sense

Jul 2020 – Aug 2022

(Remote) London, UK

- Integrated cloud data streams and rendered optimizations for social media analytics. Reduced computation complexity by 40% and API response time by a factor of 10.
- Developed universal text translation and a live search engine system in Elasticsearch.
- Provided client support during live production hours.

Skills — GCP | Kafka | Elasticsearch | Docker Kubernetes | MERN | Selenium

Analyst Software Engineer

Afiniti Software Solutions (Private) Limited

Nov 2019 – Mar 2020

Lahore, Pakistan

- Responsible for developing and licensing Shared Memory and Networking (SIP/VoIP) of Afiniti's core v6 services, co-developing watchdog microservice, containerizing microservices with Docker, managing inter-application communication using Kafka, and contributing to v6 system design spec.

Skills — Linux C++ Boost | STL | Node | Bash scripting

Course Instructor — CCN

University of Central Punjab

Aug 2019

Lahore, Pakistan

- Engineered a secure SMS server by integrating ESP8266 and SIM 800 modules, enabling encrypted messaging over Wi-Fi and cellular networks.
- Responsible for Wireshark and Cisco Packet Tracer training programs, where I developed network simulations with Cisco Packet Tracer and showcased the real-time flow of data packets. Additionally, I provided demonstrations of Raw Socket programming/Packet inspection techniques.

Skills — Cisco Packet Tracer | NS3 | Wireshark | Embedded C++ | Raw Socket programming | Arduino

LEADERSHIP EXPERIENCE

The Entrepreneurship Cub UCP — President

Nov 2016 – Mar 2018

Led business activities and leadership training, aligned equity plans with startups, and contributed to developing Takhleeq, UCP's Incubation Center. Received the UCP Excellence Award for outstanding achievements.

AIESEC Pakistan — Outgoing Global Talent — Corporate Program Manager

Feb 2016 – Nov 2016

Recruited and mentored candidates for international exchange programs and professional internships in the MENA region.

EDUCATION

BS (Hons.) Computer Sciences

University of Central Punjab Lahore, PK.

2014 – 2018

CGPA 3.68