Raqeeb Hamza
Sr. Software Engineer

Dynamic software engineer with a proven ability to lead and manage teams while excelling in task execution with efficiency. Possesses exceptional logical and technical acumen, driven by a passion for continuous development and honing both technical and communication skills. Self-motivated and dedicated to delivering outstanding results in computing projects.

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WORK EXPERIENCE

Sr. Software Engineer
DigitalOcean ☐

03/2024 - Present   *New York. USA*

Achievements/Tasks

- Lead development of **key cloud features**, collaborating with cross-functional teams. Enhancing **system reliability by 25%** on the cloud provider platform.
- Mentor junior engineers and ensure code quality through rigorous reviews.
- Key contributor to scalable infrastructure and migrating around **50 thousand-line** codebase to a new framework, This migration led to a reduction in **deployment time from 12 minutes** to **≈ 4 minutes**.
- Enabled premium droplets with **aws-c7a series** for high performance **vCPUs** and upgraded to the latest versions of PHP and MariaDB on droplets, Improving **performance by 20%**.

Software Engineer
Funavry Technologies ☐

08/2021 - 03/2024   *Islamabad, Pakistan*

Achievements/Tasks

- Led a team of **3 Junior SWE**, cultivating a culture of effective communication and seamless collaboration using the cutting-edge Agile Scrum methodology.
- Automated the Payroll process of the company through strategic coding, achieving a remarkable time reduction from **5 hours** to **≈ 3 minutes**.

Software Engineer
Vfairs (contract) ☐

09/2023 - 12/2023   *Taxes, USA*

Virtual Events Hosting Application

Achievements/Tasks

- As an SWE, I have increased the scalability of a single event from **1,000 users to 11,000 users**, I implemented optimized load balancing, database indexing, and performance tuning.

VOLUNTEER EXPERIENCE

Software engineer (open-source)
Collaction ☐

Organizing Environmental Events

Tasks/Achievements

- Spearheaded the containerization of the backend architecture using **Docker**, reducing deployment **time by 60%** and enabling consistent, rapid deployment across multiple environments, which **improved developer onboarding efficiency by 75%**. I have implemented comprehensive unit testing using Jest, aiming for a remarkable **90% code coverage**.

EDUCATION

Bachelor in Computer Science
FAST NUCES

08/2016 - 08/2020

Courses

- Data Structures
- Operating system
- Algorithms
- Artificial Intelligence

PROJECTS

Paper Reader (05/2024 - 05/2024) ☐

- **RAG Agents using LLAMAindex** to read research papers. Users can interact with **11 research papers at once**. Users can get an accuracy of research paper, and paper summary just by asking from chatbots
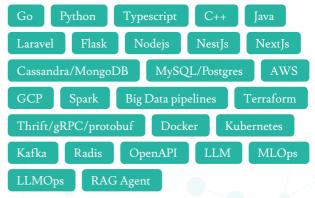
Ovada (09/2022 - 03/2024) ☐

- Ovada is a USA-based electronic health record (EHR) system. I Revamped doctor's appointment scheduling algorithm, reducing time complexity from n^2 **to nlog(n)**, significantly boosting API throughput.
- I have Automated Citimed patient insurance claims through clearinghouse integration, **saving $27,000 monthly**.
- Revamped doctor's appointment scheduling algorithm, reducing time complexity from n^2 **to nlog(n)**, significantly boosting API throughput.
- A Key contributor to optimizing API performance, One example was reducing average processing time **from 1 minute 23s to ≈ 16s**.

CNBC Arabia (02/2022 - 09/2022) ☐

- It is a news channel website with real-time stock prices. I have designed its backend with an efficient architect that can handle the load using **aws load balancer**. **Integrated Twitter, Facebook, Mailchimp(For email campaigns), and In-app Push Notifications with Firebase.**

TECHNICAL SKILLS

`Go` `Python` `Typescript` `C++` `Java`
`Laravel` `Flask` `Nodejs` `NestJs` `NextJs`
`Cassandra/MongoDB` `MySQL/Postgres` `AWS`
`GCP` `Spark` `Big Data pipelines` `Terraform`
`Thrift/gRPC/protobuf` `Docker` `Kubernetes`
`Kafka` `Radis` `OpenAPI` `LLM` `MLOps`
`LLMOps` `RAG Agent`

INTERESTS

🖥 Cloud + Artificial Intelligence

⚽ Football