

Syed Mujtaba

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EDUCATION

Pune Institute of Computer Technology

Pune, India

Bachelor of Engineering, Information Technology, **GPA: 9.52/10.00**

2018-2022

Relevant Coursework: Design and analysis of algorithms, Operating Systems, Cloud computing, Distributed computing systems

SKILLS AND INTERESTS

Programming languages: Python, Go, Javascript, C, C++

Other Skills: Linux bash scripting, AWS Cloud (Various services), Docker, Kubernetes, Django, NodeJS, SQL, Infrastructure as code (IaC), GPT/LLM prompt engineering, Competitive programming, Algorithm design

Interests: Cloud computing, Distributed systems, Virtualization, Databases, Parallel and/or concurrent computation

WORK EXPERIENCE

Trilogy Innovations ([Ti](#))

Remote

SDE - II

June 2023 - Present

- Developed a productivity-boosting coding assistant for the proprietary programming language [Gensym G2](#), leveraging a large language model (LLM) augmented with an external knowledge base for accuracy
- Engineered a highly scalable serverless event-driven multimedia generation pipeline and REST APIs for EduTok, a TikTok-style app focused on education. Technologies used: Python, AWS Lambda (serverless compute), DynamoDB (NoSQL database), and SQS message queues
- Leveraged GPT-4, large language models, and Stable diffusion image models with prompt engineering to fully automate the generation of educational content (videos, photos, etc.) for EduTok

SDE - I

August 2022 – May 2023

- Achieved a 40% reduction in cloud expenses for [Engine Yard Kontainers](#), a Kubernetes-based hosting platform for containerized web apps, through the implementation of multi-tenant databases, on-cluster logging and rigorous adherence to cloud best practices for cost optimization.
- Technologies used: Kubernetes, Event driven autoscaling (KEDA), AWS RDS (Relational DB), AWS Fargate (serverless compute), Loki (Log storage)
- Member of the recruitment team: Conducted 50+ interviews, encompassing algorithmic and resume-based evaluations.

Push protocol ([push.org](#))

Remote

Web3 Backend Intern

November 2021 – March 2022

- Scaled and monitored AWS EC2 Linux servers, ensuring seamless performance and reliability to accommodate rapid user base growth.
- Implemented a fully automated CI/CD pipeline utilizing GitHub Actions and AWS CodeDeploy, significantly reducing code deployment time.
- Contributed to an [open-source](#) backend microservice in NodeJS that submits users' transactions to the Ethereum blockchain on their behalf.

Arista Networks ([arista.com](#))

Pune, India

Intern

October 2020 – December 2020

- Enhanced quality assurance by writing Python unit tests for the data center's API load balancer, enabling confident code modifications and efficient maintenance processes

Frontdoor, Inc. ([frontdoorhome.com](#))

Pune, India

Intern

October 2020 – December 2020

- Built a CLI (command line app) in the **Go** programming language to generate IAM (Identity and Access Management) policies for gRPC APIs, resulting in a faster API development process

AWARDS AND ACHIEVEMENTS

- ICPC regionals ([certificate](#)): Ranked 45th out of 1,000 teams, representing my university at a national level in the prestigious competitive programming contest
- Ranked in the Top 1% on Codeforces ([Profile link](#)), a renowned competitive programming contest platform