Himanshu Shishir Shah
(Current CS graduate student | Software Engineer with 2 years of experience)

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EXPERIENCE

Viant Technology, Irvine, CA   Jun 2023 – Dec 2023
Full Stack Intern, Platform | read more

- Developed a feature for extracting audio from videos using AWS MediaConvert, SNS, DynamoDB, and EventBridge to increase the bid eligibility of video creatives; **achieving** an estimated **15% lift in generated revenue**
- **Saved 8+ engineer hours (per use)** by automating the process of adding new third-party segments using Angular, Golang, AWS Lambda, APIGateway, and S3
- **Improved performance** of existing Python scripts **by 30x** on average using Codon, **reducing costs** by **at least 15x**

Visible Alpha, Mumbai, India   Mar 2022 – Jun 2022
Software Engineer 2, Data Feed and APIs | read more

- Engineered the framework for adding Snowflake as a data delivery channel using Falcon, Python, and MySQL, **increasing** the **generated revenue by 45%** and **reducing the Time To Value**
- Built APIs to **reduce** the average **tech-support turnaround time** by **80%** from **10 to 2 minutes**
- Revamped the file dispatcher microservice to **reduce the number of open SSH connections** by **5x** using Paramiko
- Implemented a dashboard to report daily file generation and dispatch metrics to aid the Support Team in monitoring failures

Visible Alpha, Mumbai, India   Jun 2020 – Feb 2022
Software Engineer 1, Data Feed and APIs | read more

- **Migrated** the existing **monolithic ETL application** to a **microservice-based** implementation, delivering high-volume, real-time data to clients with low latency, using Django, MongoDB, and Redis, driving $2 million in revenue
- **Optimized file dispatch latency** by **80%** using RabbitMQ & Celery for asynchronous task execution (**60 to 10 seconds**)
- Designed and added REST APIs and AWS S3 as data delivery channels to **ease data consumption** for clients
- Solved complex performance problems by resolving production issues, gaining exposure to dealing with large-scale software design issues, and avoiding performance bottlenecks

EDUCATION

University of California Irvine, Irvine, CA   Sept 2022 – Dec 2023
Master of Computer Science | Course Assistant for Computer Networks (EECS 148) | GPA: 4.0/4.0

K J Somaiya Institute of Technology, University of Mumbai, Mumbai, India   Aug 2016 – Oct 2020
Bachelor of Engineering in Computer Engineering | GPA: 8.96/10.0 (3.71/4.0)

PROJECTS

Crontab Manager – *Python, Angular | read more | link*   Jul 2023 – Present
- Creating a UI to allow users to create, update, and delete cron jobs on the host and any Docker containers running on it

TableGen Formatter – *C++, Compilers | read more | link*   Jan 2023 – Jun 2023
- Extended *Clang-Format* to support formatting of TableGen files with several configurable formatting style options

DNS Server – *C++, Computer Networks | read more | link*   Feb 2023 – Mar 2023
- Implemented a DNS server that recursively resolves a domain name and supports multiple record types

SKILLS & INTERESTS

- **Languages & Frameworks:** Python, Golang, C++, Java, TypeScript, HTML, CSS, Django, Falcon, Angular
- **Databases, Caching & Message Queues:** MySQL, MongoDB, Snowflake, Redis, RabbitMQ
- **Testing:** Pytest, Sentry, Apache JMeter, Cucumber, Postman, SonarQube, Unit testing, Load testing, TDD, BDD
- **Cloud:** AWS (S3, EC2, DynamoDB, SNS, Lambda, MediaConvert, EventBridge, CloudWatch, APIGateway)
- **DevOps & Misc:** Git, CI/CD, Docker, Jenkins, OOP, REST APIs, Linux, Unix, Microservices, Distributed Systems, Back-end
- **Interests:** Vinyl Record collecting, Badminton, Table Tennis, Writing TIL posts

LEADERSHIP

- Accepted for presenting a Technical Talk on *TableGen Formatter* at the *2023 LLVM Developers' Meeting, Santa Clara (Oct 10-12)*
- Initiated monthly tech Brown Bag sessions at Viant to foster knowledge sharing; conducted the first session on Schema migrations