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Education _____

University of California, Davis

Davis, CA

MSc in Computer Science

Sept. 2021 - Exp. May 2023

· Courses: Software Engineering, Distributed Database Systems, Distributed File System, Artificial Intelligence, Algorithms

4.0/4.0 GPA

Delhi Technological University

Delhi, India

B. TECH IN INFORMATION TECHNOLOGY

Aug. 2016 - May 2020

Work Experience _

Block Inc. (Formerly Square)

San Francisco, CA

SOFTWARE ENGINEER INTERN - DATA STREAMING PLATFORM TEAM

Jun. 2022 - Exp. Sep. 2022

- Technologies: Python, Kafka, AWS DynamoDB, Airflow, Redis, Vue.js, SQL, Kubernetes
- Extended support for Dynamodb and Kinesis source for near-realtime data pipelines and deployed to production.
- Led a team of 4 to develop a collaborative playlist prototype for TIDAL. Won the internal hackathon and filed for patent.

Exploratory Systems Lab, UC Davis

Davis, CA

GRADUATE STUDENT RESEARCHER

Mar. 2022 - Jul. 2022

- Owned and built a Python driver for creation and transfer of UTXO-like assets in a blockchain database.
- Led a team of 3 to develop a NFT marketplace prototype on top of the python driver.

Kadmik (Early Stage EdTech Startup)

Remote, India

FOUNDING TEAM MEMBER & SOFTWARE ENGINEER

Jan. 2021 - Sept. 2021

- Technologies: Python, Fastapi, Postgresql, Docker, REST apis, AWS, Redis, OOP, Celery, Websocket, Asyncio, JWT
- Built the system architecture, api security, and backend game engine of **Kadmik** ♂ from scratch.
- Delivered 2M+ quizzes within 10 months and reached a valuation of \$1.8M.
- Slashed API latency by 75% by optimising SQL queries. Instrumented and profiled the backend code to identify bottlenecks.

ICICI Lombard General Insurance Co. Ltd.

Bangalore, India Aug. 2020 - Sept. 2021

SOFTWARE DEVELOPER

• Technologies: Python, AWS, REST apis, Flask, Neo4j, Prometheus, Grafana, Lambda, S3, Redshift, Kinesis - Firehose

- Constructed a data pipeline using AWS services for click-stream analysis using Lambda, S3, Firehose and Redshift.
- Reconfigured a monitoring and alerting system with custom metrics backed by Prometheus and Grafana.
- Owned and designed a microservice for a discount engine which made discounts easily configurable and reduced reconfig time by 80%.

Google Summer of Code, DeepMind

Remote, USA

STUDENT SOFTWARE DEVELOPER

Jun. 2020 - Aug. 2020

- Technologies: Python, Bash, TravisCI, CI/CD, Configuration Management, Helm, GCP, Azure, Docker, Multithreading, PyTest, OOP
- Made Pull Requests on GitHub to add new features along with unit tests to Kapitan ♂ and resolve pending issues.
- Enabled inventory reusability by programming a federated remote inventory system.
- Expanded secret management by integrating 2 secret backends for GCP Secret Manager and Azure KMS.

Projects _____

Centaur - Unmanned Ground Vehicle | Design Report 🗗

ROBOTICS TEAM PROJECT | PYTHON | ROS | OS HARDENING | RISK MANAGEMENT | SSH | DHCP | LINUX

• Worked in a group of 10 to securely develop an autonomous bot. Headed the Information Security division to make the bot NIST RMF compliant; Awarded the 5th place globally in the cyber challenge of the Intelligent Ground Vehicle Competition 2019 held at Oakland University MI, USA

GetvaccIndia | GitHub Link 🗗

FULL-STACK APPLICATION | PYTHON | JAVASCRIPT | REDIS | CI/CD | MONGODB | CELERY | DOCKER | AWS EBS

· Developed a scalable external-link-alt vaccine email notification scheduler using Fastapi, MongoDB, Celery, React, AWS EBS for hosting and Redis as message broker. Catered to over 1,000 subscribers.

Skills_

Programming Python · JavaScript · C++ · Bash · LaTeX

Frameworks & Tools FastAPI · React.js · Docker · AWS · SQL · gRPC · Kafka · Neo4j · CI/CD · Redis · Git **Linux Certifications** Red Hat Certified Engineer · Red Hat Certified System Administrator · Certification ID: 180-207-482

Interests Distributed Systems · Linux · Automation · Security · Blockchain · Piano