HARSHAK KRISHNAA KEERTHIPATI

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Education

Arizona State University, Tempe Campus | *CGPA - 4.00/4.00* **Aug. 2022 – May 2024**
- Master of Science in Computer Science

Amrita Vishwa Vidyapeetham, Coimbatore | *CGPA - 8.29/10* **Jul. 2017 – Jun. 2021**
- Bachelor of Technology in Computer Science and Engineering

Technical Skills

Languages: Python, C++, JavaScript, Typescript, Java, SQL, Solidity, GoLang, Kotlin
Technologies/Frameworks: Reactjs, Angular2, Nodejs, D3js, SpringBoot, FAST API, Docker, Kubernetes, Kafka
Developer Tools: VS Code, Eclipse, Jupyter Notebook, Postman, Minikube
Database/ Services: MongoDB, MySQL, PostgresSQL, SQLite, Neo4j, Amazon Web Services, Google Cloud Services

Experience

Fovus - Software Developer Intern **Oct. 2023 – Jan. 2024**
Tech: Typescript, YAML, Jest, React testing library Tempe
- Led the creation of thorough unit test cases and integrated API mocking for the HPC platform dashboard, ensuring meticulous testing and validation.
- Substantially improved overall platform stability by addressing warnings and errors, resulting in a noteworthy 70% boost in codebase reliability.
- Established a streamlined GitHub Actions workflow for automated unit testing on commits, efficiently optimizing the development pipeline and ensuring ongoing codebase integrity.

Vanenburg - Associate Software Engineer **Jan. 2021 – Jul. 2022**
Tech: Angular2, JQuery, Java, SpringBoot Coimbatore
- Led and coordinated a team of interns in the creation of a Google Chat Bot service, successfully integrating it with our Low Code/No Code platform thus substantially enhancing user workflow efficiency.
- Engineered and optimized a transformative grid widget module to enhance data administration, substantially expanding platform capabilities while eliminating coding constraints for improved user and developer accessibility.
- Devised a platform plugin architecture, seamlessly integrating third-party functions, thereby amplifying feature diversity and user tool compatibility.

Sprytech - Blockchain Application Developer Intern **Apr. 2020 – Jan. 2021**
Tech: NuxtJS, NodeJS, Ethereum, Avalanche, Hedera Remote
- Designed and implemented an interoperable token transfer bridge, significantly enhancing cross-chain operability by enabling seamless exchange of native standard tokens between Ethereum and Hedera/Avalanche blockchains.
- Engineered a secure server utilizing the Hedera Token Service (HTS) protocol for the Vaccine Passport Application, ensuring tamper-proof storage and retrieval of COVID-19 vaccination data.
- Developed "Play2Win", a trivia game which incentivizes and rewards players in crypto token based on their knowledge.

Projects

Ecommerce Microservices | *SpringBoot, SpringSecurity, MongoDB, MySQL, Prometheus, Grafana* | Website **Apr. 2024**
- Implemented an ecommerce microservices framework featuring separate synchronous and asynchronous API services to facilitate key ecommerce functionalities.
- Established authentication mechanisms utilizing API gateways and developed monitoring dashboards to securely oversee the health of microservices.

KeyValueStore | *FASTApi, Redis, Kubernetes, MySQL* | Website **Mar. 2024**
- Designed and implemented a scalable Key-Value store data application utilizing FastAPI for server-side operations and Redis for message queueing and storage, deployed within Kubernetes infrastructure.

Data Streaming pipeline using Kubernetes | *Minikube, Neo4j, Kafka, Zookeeper, Python* **Apr. 2023**
- Built a highly scalable and a highly available data streaming pipeline that takes a document stream as input and distributes it to load data in a graph database.
- Deployed Kubernetes pods with Kafka, Zookeeper and graph database Neo4j, using statefulset.

Image Recognition using Deep Learning | *AWS (EC2, S3, SQS, Lambda, DynamoDB), Flask, Docker* **Jan. 2023**
- Implemented a full stack web application to perform image recognition, consisting of 3 tiers - web, app and data tiers.
- Developed a EC2 Autoscaling group by configuring cloud watch alarms to elastically scale app instances in and out automatically based on the load.
- Performed frame extraction of videos and image recognition by implementing a Lambda function triggered using S3.