

# HARSHAK KRISHNAA KEERTHIPATI

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## Technical Skills

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

## Experience

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### 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.

## Education

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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

## Projects

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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.