

# 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, AWS SDK & CDK, Flask, Docker, Kubernetes, Kafka

**Developer Tools:** VS Code, Eclipse, Jupyter Notebook, Postman, Minikube

**Database/ Services:** MongoDB, MySQL, PostgreSQL, 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

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.

PaySol | *NextJS, MongoDB, PusherJS, SolanaWeb3JS* | [Website](#)

Aug. 2021

- Developed real-time decentralized messaging application with integrated Solana wallet for cryptocurrency transactions.
- PaySol strives to facilitate people or businesses to connect and transfer crypto assets easily through a scan and pay system to enable a secured and fast transfer.