

HARSHAK KRISHNAA KEERTHIPATI

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Education

- Arizona State University, Tempe Campus** | *CGPA - 3.94/4* **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++, Java, JavaScript, Typescript, Solidity, GoLang, SQL, Kotlin
Technologies/Frameworks: ReactJS, Angular2, NodeJS, AWS CDK, Flask, Docker, Kubernetes, Kafka
Developer Tools: VS Code, Eclipse, Jupyter Notebook, WinSCP, Putty, Postman, Minikube
Database/ Services: MongoDB, MySQL, PostgreSQL, SQLite, Neo4j, Amazon Web Services, Google Cloud Services

Experience

Vanenburg - Associate Software Engineer **Jan. 2021 – Jul. 2022**
Tech: Angular2, JQuery, Java, Bootstrap 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.

Indian Institute of Information Technology, Kancheepuram - Research Intern **Apr. 2019 – Jun. 2019**
Tech: Python, OpenCV Kancheepuram

- Contributed to the creation of a Vehicle Tire Alignment System, utilizing Computer Vision techniques such as Hough circles and depth mapping through the implementation of the OpenCV Python package.
- This endeavor aimed to devise a cost-efficient methodology for angle measurement in the automotive sector, with the strategic goal of achieving a 60% reduction in solution production costs.

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.

Leadership / Honors

Amrita Vidyanidhi Scholarship **Jul. 2017 - Jun. 2021**

- Awarded 50% scholarship for securing 96th percentile in Amrita's Entrance Examination - Engineering (AEEE) and also maintaining excellent grade through out the Undergraduate program.

UW Blockchain Hacks - Winner | [Devpost submission](#) **May. 2020**

- Won first place in UW Blockchain Hacks conducted by the "Blockchain Society at the University of Washington".