

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, 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.

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, Solana Web3JS* | [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.

Honors

- 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".