Sasank Chunduri

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Education

Master of Science, Software Engineering Systems

Northeastern University, Boston, MA, United States | GPA: 3.74/4.00   Sep 2021 - Dec 2023

Bachelor of Technology, Computer Science and Engineering

Vellore Institute of Technology, Vellore, Tamil Nadu, India | GPA: 7.7/10   Jul 2017 - June 2021

Professional Experience

Warburg Serres, Software Engineering Co-op | Boston, MA   Feb 2023 - July 2023

- Engineered front-end components and developed a reusable component library package using React, Next.js, TypeScript, and Rollup, enhancing user experience and interface efficiency in a venture capital portfolio management system.
- Engineered a scalable serverless backend infrastructure using NestJS, Prisma, and AWS Lambda, optimizing for high-volume, data-intensive operations and ensuring robust, secure data management.
- Prototyped the integration of blockchain technologies, utilizing RPCs and specialized libraries to extract transaction data, thereby expanding the system's functionality and value.
- Actively contributed to Agile development cycles, including sprint planning and code reviews, driving continuous enhancement of application performance and user experience.

Timing Technologies, Engineering Intern | Hyderabad, India   May 2020 - August 2020

- Engineered an immutable, CLI-controlled blockchain database, integrating RFID technology for precise event timing, notably in marathons and 10K runs. Instrumental in deploying RFID solutions, significantly improving timing accuracy and efficiency amidst challenges like crowded starts and complex finishes, ensuring reliability in large-scale sporting events.

Nature Born Projects, Summer Intern | Hyderabad, India   May 2018 - August 2018

- Led the design and development of the Nature Born Projects website, emphasizing solar energy solutions through user-centric design and informative content.
- Worked alongside Focaal Automation to deliver a comprehensive tracking solution for a solar power plant, utilizing cloud-based SCADA architecture for enhanced energy production and plant monitoring.

Technical Skills

Languages: JavaScript, Solidity, Typescript, Python, Java, Rust, Bash, GraphQL, SQL, HTML, PHP, C++, C, MATLAB, R, Circom

Softwares and Tools: React, Node.js, Next.js, AWS, NestJS, Prisma, Linux, Git, Vim, Jupyter, Hardhat, Ethers.js, Wagmi, Viem, Terraform, CloudFormation, Docker, Rest APIs, Express, PostgresQL, MongoDB, OpenCV, Tensorflow, Tailwind CSS, Vscode

Projects

Bleed eSports Official Website - [bleed.gg]   August 2023

- Spearheaded the development of the Bleed eSports website using Next.js, React, TypeScript, and Tailwind CSS, enhancing the brand's digital footprint and user engagement.
- Engineered an advanced admin panel with Tina.io - a headless CMS, significantly streamlining content updates and management efficiency for team rosters and news sections.
- Implemented Shopify integration, boosting e-commerce capabilities and facilitating direct merchandise sales.

Frens Protocol – A Decentralized Game Launcher   September 2022

- Developed a decentralized Steam like dApp where you can add your friends and connect with them seamlessly over different games, which are curated and onboarded through DAO governance. Built the project at Hack Boston, a 36-hour blockchain oriented hackathon at Harvard. Won 3rd place in 3 chains: BNB Chain, Klaytn and Cartesi.

Active Liquidity Management on Uniswap V3   May 2022 – August 2022

- Created and implemented a protocol for active liquidity management on Uniswap, offering users yield-earning strategies with minimized risk. Developed the dApp using React, Next.js, TypeScript, integrating Wagmi/Viem for smart contract interactions and TheGraph subgraphs with GraphQL for efficient on-chain data aggregation and analysis.

AWS Serverless Web Application   January 2022- May 2022

- Developed a Node.js-based serverless web application for email verification, utilizing AWS SES, hosted on EC2 with infrastructure as code (IaC) deployment managed via AWS CloudFormation and Terraform, and CodeDeploy for CI/CD.

10k NFT Collection – Syndicate of Beasts   June 2021 - August 2021

- Initiated and launched a 10,000-piece NFT collection, overseeing the end-to-end process from concept to deployment on Ethereum. Implemented randomized generation of NFT traits, set up metadata storage on IPFS, and managed the deployment of the project's website on a self-hosted Linux VPS, demonstrating blockchain project management.

Automated Brain Tumor Segmentation using GAN Augmentation   November 2020 - April 2021

- Developed a novel software algorithm segmenting brain tumors from MRIs, by employing deep learning using CNN with ResNets and Generative Adversarial Networks (GAN) for data augmentation.
- Improved the Optimized UNET Dice Coefficient to 0.93, surpassing the base paper's score of 0.78, and authored a conference paper published in [Springer Nature book series "Lecture Notes in the Network and Systems"]