MAYANK DARUKA

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EDUCATION

The University of Texas at Austin   Aug. 2019 - May 2023
Bachelor of Science, Computer Science
Bachelor of Science, Mathematics
GPA: 3.93
Relevant Coursework: Data Structures, Computer Architecture, Operating Systems, Algorithms, Competitive Programming, Neural Networks, Software Engineering, Blockchain Smart Contracts Development, iOS Computing, Cloud Computing, Computer Networks, Discrete Math, Linear Algebra

EXPERIENCE

Mastercard, *Software Engineer Intern*, Arlington, VA   June 2021 - Aug. 2021
• Enhanced health checks, added graceful shutdowns, and wrote automation/unit tests with JUnit and RestAssured framework demonstrating 90% code coverage for Java Spring Boot services in production
• Designed API for downstream services integration that retrieves aggregate health status of over 10 services dynamically in different environments
• Created new Track Intelligence service and programmed functionality for POST call to create bulk discovery requests for users
• Selected as winning submission out of 30+ teams globally for intern challenge sponsored by Mastercard's innovation arm

Dive Chat, *Part-Time Software Engineer*, Austin, TX   May 2020 - Present
• Led development of mobile and web interface of channel-based messaging app with React Native, Expo, React.js, and Redux
• Constructed Firebase data security rules, improved query speeds by 45% through caching, memoization, debouncing, and database optimizations
• Built heavy and scalable back-end for messaging interface, performance improvements, caching and syncing of persisted user data
• Implemented push notifications, message replies, event reminders, event updates with NodeJS serverless functions deployed to Google Cloud

Big and Mini, *Software Engineer Intern*, Austin, TX   June 2020 - Aug. 2020
• Built a web client dashboard with Next.js and AWS, and incorporated a video-calling platform using Jitsi to facilitate online user meetings
• Created automated email reminder systems for over 2400 users in 13 countries using Node.js functions deployed to AWS Lambda
• Constructed an API in Java to automatically match users based on available times, interests, and preferences from DynamoDB

ACTIVITIES

Texas Blockchain   Sept. 2021 - Present
• Attended Research and Development sessions to learn Solidity and develop Ethereum smart contracts
• Built an NFT marketplace platform for investing in the growth of content creators with React.js, Express.js, OpenZeppelin, and Hardhat
• Wrote smart contracts to mint ERC721 tokens and handle balances of ETH held between accounts, included within API endpoints

UT IEEE Computer Society   Sept. 2020 - Dec. 2020
• Built UT Ticket Exchange, a centralized web platform for over 40,000 UT affiliates to buy/sell tickets for sporting events
• Leveraged the MEAN Stack (MongoDB, Express.js, Angular, Node.js) and worked with 15 students in an Agile environment to develop a microservices architecture model

PROJECTS

TXPost (Decentralized Blockchain System)
• Developed a decentralized content sharing system with a peer-to-peer network, involving a web application with mining, syncing, and content posting functionalities to interface with blockchain
• Implemented APIs for distributed consensus, SHA-256 block hashing, RSA digital signatures, and a Proof-of-Work mining algorithm

Omelia (Chrome Extension) - HackTX 2020
• Created a Chrome extension using JavaScript and HTML/CSS that modifies a Google spreadsheet using voice commands recorded by user
• Incorporated real-time speech to text translation and utilized Cloud NLP, GloVe, NLTK and Scikit-learn for text processing with 82% accuracy
• Designed Python RESTful API in Flask deployed to Google Cloud Functions that uses the Google Sheets API to interact with spreadsheets

SKILLS

PROGRAMMING LANGUAGES: Java, Python, JavaScript, C, C++, HTML/CSS, Solidity, Rust
FRAMEWORKS/TOOLS: React.js, Node.js, React Native, Angular, Spring Boot, Flask, Tensorflow, Keras, NLTK, Google Cloud, AWS, MongoDB, Jenkins
INTERESTS: Full-Stack Engineering, Blockchain/Cryptocurrency, Cloud Computing, Artificial Intelligence