MAYANK DARUKA

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EDUCATION

The University of Texas at Austin   May 2023
Bachelor of Science in Computer Science and Mathematics
GPA: 3.96
Relevant Coursework: Data Structures (Object Oriented Programming), Computer Architecture, Operating Systems, Algorithms, Competitive Programming, Computer Networks, Linear Algebra, Multivariable Calculus, Discrete Math, Differential Equations, Number Theory, Applied Statistics

EXPERIENCE

Mastercard, *Software Engineer Intern*, Remote   June 2021 - Current
• Mastercard Track - Business Payment Service Team, Product & Engineering Division

Dive Chat, *Part-Time Software Engineer*, Austin, TX   May 2020 - Current
• Built 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
• Implemented heavy back-end for messaging interface, performance improvements, caching and syncing of persisted user data
• Implemented push notifications, message reactions, 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 NextJS and HTML/CSS and implemented back-end functionality with AWS
• Developed and incorporated a video-calling platform using Jitsi to facilitate online meetings between users
• 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

UT IEEE Computer Society, *Software Developer & Member*
• Built UT Ticket Exchange, a centralized web platform for UT affiliates to buy/sell tickets for sporting events
• Leveraged the MEAN Stack (MongoDB, Express.js, Angular, Node.js) to develop front-end and back-end of application
• Worked with 15 students in an Agile environment to develop under a microservices architecture model

Texas Convergent, *Build Team Technical Lead*
• Developed a budgeting product that handles user finances and tracks item returns with React Native and Parse REST API
• Presented tech prototype and pitched the product to over 200 company recruiters, engineers, and school alumni

PROJECTS

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

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
• Implemented real-time speech to text translation and utilized Google Cloud NLP, GloVe, NLTK and Scikit-learn for text processing
• Built Python RESTful API in Flask deployed to Google Cloud Functions that uses the Google Sheets API to interact with spreadsheets

Red Meter (Natural Language Processing)
• Built webpage with Flask that uses NLP to provide accurate insights on the outcome of the 2020 Election
• Trained a Keras model with 1.6 million tweets and Word2Vec embeddings in Tensorflow to detect polarity in texts
• Achieved 79% accuracy in predicting text sentiments using a trained Recurrent Neural Network model and Python libraries (Numpy, Pandas etc.)

SKILLS

PROGRAMMING LANGUAGES: Java, Python, JavaScript, C, C++, HTML/CSS, TypeScript, Octave, R
FRAMEWORKS/TOOLS: React.js, Node.js, React Native, Angular, Spring Boot, Flask, Tensorflow, Keras, NLTK, Google Cloud, AWS, MongoDB
INTERESTS: Full-Stack Engineering, Artificial Intelligence, Data Science, Cloud Computing, Cricket, Tennis, Music, Traveling
WORK AUTHORIZATION: Eligible to work in the US with no restrictions