MAYANK DARUKA

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EDUCATION

The University of Texas at Austin   May 2023
Bachelor of Science in Computer Science and Mathematics
GPA: 3.97
Relevant Coursework: Data Structures, Computer Architecture, Operating Systems, Competitive Programming, Linear Algebra, Multivariable Calculus, Discrete Math (both Math and CS versions), Differential Equations

EXPERIENCE

Dive Chat, *Software Development Intern*, Austin, TX   May 2020 - Aug. 2020
• Built mobile interface of channel-based messaging app for college students with React Native and Redux
• Constructed Firebase data security rules, improved query speeds by 30% through caching and database optimizations
• Allowed for more efficient data retrieval and processing by incorporating Redux-Thunk and Redux-Persist
• Implemented heavy backend for group/event creation, deep linking, asset bundling, and conversation encryption
• Integrated iOS and Android push notifications using NodeJS and Google Cloud Platform
• Mobile application received around 5000 downloads within the first week of product launch

Big and Mini, *Full-Stack Software Engineer*, Austin, TX   June 2020 - Aug. 2020
• Built a web video-calling platform using Jitsi and NextJS that facilitates interaction between the youth and older generations to mitigate social isolation and loneliness amongst older adults
• Created automated email reminder systems for over 2400 users using NodeJS functions deployed to AWS Lambda
• Constructed an algorithm in Java to match users based on available times, interests, and personal preferences
• Developed back-end of a cross-platform mobile application with AWS Lambda, DynamoDB and Cognito

Texas Convergent, *Build Team Technical Lead*, Austin, TX   Feb. 2020 - May 2020
• Developed a budgeting application that handles user finances and maintains a system for tracking 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

Laundry Line (iOS and Android Application)   Feb. 2020 - Current
• Developed a mobile application using React Native and Firebase that solves laundry-related issues in UT dormitories
• Extensive UI/UX that displays the real-time status of laundry machines and allows for individualized texting amongst students on each floor of the dormitory

Red Meter (Natural Language Processing)   Apr. 2020 - May 2020
• Built webpage with Flask that extracts patterns and analyzes sentiments about Trump with Natural Language Processing
• Cleaned and performed feature extraction on real-time tweets using several Python libraries (NumPy, Pandas etc.)
• 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 trained Recurrent Neural Network model

Kinetic Keys (Computer Real-Time Vision)   Jan. 2020 - Mar. 2020
• Created interface with ReactJS that uses a webcam to detect English alphabet letters in human poses to spell out words
• Incorporated a Tensorflow ML model that was trained with 5000+ images to recognize 9 unique human poses
• Showcased product and presented demo to company recruiters/engineers at Texas Convergent Side Project Expo 2020

SKILLS

PROGRAMMING LANGUAGES: Java, Python, C, JavaScript, HTML/CSS, Octave
FRAMEWORKS: ReactJS, NodeJS, Flask, React Native, Flutter, Tensorflow, Keras, Firebase, MongoDB, AWS