Kruthay Kumar Reddy Donapati

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EDUCATION

Master's in Computer Science

Aug 2021 - May 2023 Fairfax, VA

George Mason University, GPA: 3.9/4

Bachelor's in Technology

Aug 2016 - Aug 2020 Hyderabad, India

CVR College of Engineering, GPA: 3.95/4

EXPERIENCE

Graduate Teaching Assistant, George Mason University

Jan 2022 - Present

• Course: Analysis of Algorithms, Formal Methods, and Models, Mobile Application Development

Fairfax, VA

- Led a team of 5 GTAs in grading 4 sections with 250+ students.
- Developed a Python grade script to automate assessment of weekly Java projects using JUnit tests, reducing grading time from 20 hours to just 25 minutes.
- Developed a shell script for automated installation of 100+ and applications using Android Debug Bridge (adb)
- Taught special class sessions for a group of 30 students interested in learning NP Hard, NP Complete complexity problems and advanced algorithms that are out of the scope of the course

Software Engineer, GGK Technologies

Dec 2019 - Jan 2021

Data Science

- Huderabad. India • Played a key role in cleansing and analyzing unstructured and imbalanced real-world client data, preparing it for effective
- Utilized LSTM to predict client's profit ratio and align their needs with data-driven insights.
- Technologies: Python, PyTorch, Pandas, NumPy,

iOS Application Development

- Upgraded UI from UIKit to SwiftUI, leading to better user experience with smoother interactions.
- Identified and thoroughly addressed performance issues, implementing optimizations that resulted in a significant 20% improvement in overall app performance.
- Enhanced user experience by adding a pull-to-refresh feature, allowing users to refresh data seamlessly within the app.
- Technologies: Swift, SwiftUI, XCode, MVVM, Core Data

PROJECTS

Remote Mouse https://github.com/kruthay/MagicTracker/

Sep 2023

- Designed and implemented a Remote Mouse iOS application, enhancing macOS control convenience.
- Employed Network framework and UDP Protocol to enable wireless and wired connectivity for optimal performance
- Developed for iOS, iPadOS, macOS
- Technologies: SwiftUI, MVVM, Network.Framework, Git

Garments https://github.com/kruthay/Garments/

Aug 2023

- Created a sample Core Data project using SwiftUI to stress-test SwiftUI's scrolling using Lists and ScrollView + LazyVStack performance.
- Maintained smooth scrolling and instantaneous dynamic sorting with Core Data for 10 million objects.
- Technologies: SwiftUI, MVVM, Core Data

Clever Jacks: Cards-Game https://kruthay.github.io/CleverJacksApp/

Jul 2023

- Created an engaging multiplayer turn-based iOS app featuring the popular Sequence card game.
- Implemented robust multiplayer features, enabling seamless gameplay with friends through manual invitation or automatching, while incorporating in-game messaging and turn reminders for enhanced user interaction.
- Developed for iOS, iPadOS, MacOS Catalyst
- Technologies: SwiftUI, MVVM, GameKit, Git, TestFlight, Custom SF Symbols.

App Store: https://apps.apple.com/us/app/clever-jacks/id6450907461

Full Stack Web Application: github.com/kruthay/Full-Stack-SPA

May 2022

- Developed a single page web application using Angular, RESTful Web Services, Tomcat, SpringBoot and JPA along with Amazon RDS.
- The application allowed students to participate in surveys, gather class information from PDFs, and showcased comprehensive data analysis for easy accessibility by all website users.
- Frontend: Angular, Bootstrap, Visual Studio Code. Backend: Spring Boot Framework through STS tools, Amazon RDS, Container Orchestration: Docker, Rancher, Kubernetes, AWS EC2.

SKILLS

- Languages: Python, Swift, Java, C
- iOS Development: SwiftUI, XCTest, Fastlane, Network, framework, Core Data
- Software Development HTML, CSS, JavaScript, Angular, AWS Services, JUnitTest, Git, Spring Boot, Jenkins
- Machine Learning: PyTorch, Pandas, NumPy
- Databases: MySQL, Oracle

AWARDS