Kruthay Kumar Reddy Donapati

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EDUCATION

Master's in Computer Science   Aug 2021 - May 2023
George Mason University, GPA : 3.9/4   *Fairfax, VA*
Bachelor's in Technology   Aug 2016 - Aug 2020
CVR College of Engineering, GPA : 3.95/4   *Hyderabad, India*

EXPERIENCE

Software Developer, Seltix Solutions   Apr 2024 - Present
- Client: Revomo (Startup)   *Fairfax, VA*
- Developing and designing APIs using Python, FastAPI, and MongoDB
- Led the team on Authentication using AWS Cognito including R&D, Design and Devlopment
- Handling backend development, including testing using Postman Flow.
- Mentoring juniors on FastAPI, reviewing their code, and providing guidance on the codebase.
- Following agile practices, including CI/CD using Jenkins and Git.
- Collaborating with the front-end team to accommodate custom requests or responses from the APIs.

Graduate Teaching Assistant, George Mason University   Jan 2022 - Nov 2023
- 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.
- 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
- Web and Mobile Applciation Development   *Hyderabad, India*
- Worked as a developer for the team for designing and developing a small project using Microsoft Visual Studio, .NET and C#
- Implemented SwiftUI integration into existing UIKit project using UIHostingController, seamlessly incorporating modern SwiftUI components within the established UIKit architecture.
- Identified and thoroughly addressed performance issues, implementing optimizations that resulted in a significant 20% improvement in overall app performance.
- Technologies : C#, .NET, Visual Studio, Swift, SwiftUI, UIKit, XCode, MVVM, Core Data

PROJECTS

Clever Jacks: Cards-Game App Store : https://apps.apple.com/us/app/clever-jacks/id6450907461   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
- Technologies: SwiftUI, MVVM, GameKit, Git, TestFlight, Custom SF Symbols.

Remote Mouse https://github.com/kruthay/MagicTracker/   Sep 2023
- Designed a Remote Mouse iOS application (Work in progress), enhancing macOS control convenience.
- Employed Network.framework and UDP Protocol using a Client-Server model to enable wireless and wired connectivity for optimal performance
- Developed for iOS, iPadOS, & macOS
- Technologies: SwiftUI, MVVM, Network.Framework, Core Graphics, Git

Recipe https://github.com/kruthay/Recipe/   Nov 2023
- Developed a Recipe App using SwiftUI and SwiftData, ensuring compatibility with iOS 17 and later.
- Streamlined network requests with a centralized API structure, simplifying maintenance and future updates.
- Implemented efficient JSON data handling using DynamicCodingKeys with Codable, supporting a cleaner decoding process. Opted for a Model-View architecture and integrated SwiftData for improved data management and scalability.
- Technologies: SwiftUI, SwiftData, Codable

SKILLS

- **Languages:** Swift, Python, Java, C#
- **iOS Development :** SwiftUI, UIKit, Storyboard, XCTest, Fastlane, Network.framework, Core Data, SwiftData, Apollo
- **Software Development** HTML, CSS, JavaScript, FastAPI, AWS Services, .NET, JUnitTest, Git, Firebase, Spring Boot
- **Machine Learning:** PyTorch, Pandas, NumPy, NLP, Transformers
- **Databases:** MySQL, Oracle, GraphQL

AWARDS

Outstanding Graduate Teaching Assistant Award, Computer Science, George Mason University   2023
Outstanding Academic Achievement Award, Computer Science, George Mason University   2023