

ROHIT SARIPALLE RESUME

SUGS Computer Science & Engineering M.S.E. — 98913393

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EDUCATION

University of Michigan - Ann Arbor

GPA: 3.95 / 4.00

Bachelor of Science in Engineering in Computer Science

Dec 2024

Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Discrete Math, Computer Vision, Machine Learning, Web Systems, Computer Organization, Operating Systems, Cyber Security, Formal Verification

Activities: Michigan Data Science Team, Michigan Cantor Coding & Trading, Intramural Sports, MHacks

Awards: James B. Angell Scholar, University Honors, Dean's List, William C. Ford, Jr. Scholarship

WORK EXPERIENCE

Expedia Group

Chicago, IL

Mobile Engineering Intern

May 2024 - August 2024

- Utilized GraphQL and Apollo Codegen to update and enhance existing schema by integrating analytics data
- Implemented impression and clicks analytics tracking to assess the impact of new features on user growth
- Competed in Expedia's Hackathon, achieving regional finalist status and advancing to the hackathon's global round by developing an engaging app widget for travelers using Swift/SwiftUI and integrating multiple app intents

University of Michigan, College of Engineering

Ann Arbor, MI

Software Engineering Instructional Assistant

Jan 2024 - Present

- Collaborated with professors to provide support in classroom management and various instructional activities
- Assisted 400+ students in understanding and applying modern software engineering concepts and fundamentals

PROJECTS

Multi-Threaded Network File Server

April 2024

C++ · Boost Library · Threads · Sockets · Git

- Developed a concurrent, crash-consistent network file server that supports multiple users and nested directories
- Ensured crash consistency with ordered writes, used Boost threads and upgradeable reader-writer locks for optimal concurrency, and employed sockets for network communication with clients across diverse environments

WordPress-iOS Open Source Contribution

November 2023

Swift · SwiftUI · Git

github.com/wordpress-mobile/WordPress-iOS/pull/21970

- Resolved issues where stats were empty after navigating off the app and sites for clicked URLs did not open
- 2 pull requests were accepted and included in version 23.8 of WordPress iOS released on the app store
- Implemented QA strategy of unit tests, regression tests, and mocking to resolve issues while preserving functionality

Background Swapping

November 2023

Python · Google Colab · Flask · NextJS · Git · Pandas · PyTorch

github.com/poho40/Background_swapping

- Implemented a trimap-free matting algorithm that extracts the foreground from both images and videos
- Engineered a model with an object recognition accuracy of 80.23% to generate backgrounds from a text query
- Created a website that allows users to upload photos and swap backgrounds based on a user text query

Disease Predictor

November 2023

Python · Flask · NextJS · NumPy · Pandas · PyTorch · Git

github.com/masterspin/DiseasePredictor

- Developed a machine learning model with a 94.3% accuracy in predicting a user's disease based on symptoms
- The model's output is presented in a user-friendly interface, offering insights, predictions, and additional resources
- Improved proactive healthcare by providing accessible and actionable information for early disease intervention

SKILLS

Languages: C, C++, Python, Swift, ReactJS, HTML, CSS, C#, GraphQL Java, JavaScript, LaTeX, MATLAB

Frameworks: NextJS, Flask, SwiftUI, TailwindCSS, MongoDB, Django, Docker, Kubernetes, Spring Boot

Tools: Google Cloud Platform, Google Firebase, VS Code, Xcode, Git, Postman, Apollo Codegen, Figma, Unity