Rohit Chandran

4055 Roberts Crest Ln. • Suwanee, GA 30024 • rohitchandran07@yahoo.com • (805) 490-7074

I have a solid foundation in computer science and specialized expertise in machine learning, deep learning, and data mining, I excel at applying advanced problem-solving techniques to real-world challenges. With hands-on experience in software engineering, I have designed and optimized systems, improved communication protocols, and delivered impactful projects that blend innovative technology with seamless user experiences. Proficient in programming, statistical analysis, and data-driven decision-making, I am passionate about collaborating with interdisciplinary teams to develop transformative solutions and drive technological innovation.

Education

UNIVERSITY OF CALIFORNIA, RIVERSIDE — Riverside, CA
Master of Science in Computer Science — September 2023 – December 2024
Specializations: Machine Learning, Deep Learning, Data Mining

UNIVERSITY OF CALIFORNIA, RIVERSIDE — Riverside, CA
Bachelor of Science in Computer Science — September 2019 – June 2023

Experience

VERACITY LABS — San Francisco, CA
Software Engineer Intern — October 2023 – August 2024

- Pioneered the development of a Bluetooth Low Energy (BLE) gateway, designing an intuitive user interface and optimizing communication protocols, which improved real-time data exchange by 25%
- Collaborated with experienced, cross-functional team members to ensure seamless integration of the BLE gateway with existing systems and protocols
- Participated in regular team meetings and project reviews, offering insights and suggestions to improve project efficiency and effectiveness

CODING MINDS ACADEMY — Irvine, CA
Coding Instructor — August 2022 – Current

- Conducts 6-8 individualized programming classes, teaching Python, C++, and Java; promoted to advanced courses based on outstanding performance, with a recent evaluation score of 4.5/5
- Maintains a 100% retention rate, with all students returning for a second course, with effective teaching methods and client engagement

AMGINE INK, LLC — Burbank, CA
Software Engineer Intern — June 2022 – January 2023

- Contributed to the development of a cross-platform interactive app, focusing on an interactive user experience utilizing JavaScript and Swift
- Improved the recommendation algorithm integrated in the phone application, achieving a 30% reduction in processing time
- Led onboarding sessions for new interns, providing training on codebases, workflows, and version control practices

Technical Skills

- **Programming Languages**: Python, C/C++, JavaScript, React Native
- **Machine Learning Frameworks**: PyTorch, Scikit-Learn, TensorFlow, Pandas, NumPy
- **Development Tools**: Git/GitHub, AWS, PowerBI, Linux/Unix, GraphQL, Microsoft Office
- **Specialized Technologies**: Bluetooth Low Energy, Agile Development

Additional Projects

MUSIC GEN — September 2024 – December 2024

- Designed and implemented a Python-based system integrating sentiment analysis and music generation to create immersive background tracks for children's books
- Developed and tested algorithms for dynamic music transitions, ensuring smooth playback based on text tone changes
- Created pipelines for data preprocessing, model training, and basic deployment using AWS S3 and Lambda
- Web-based UI and advanced multi-language sentiment analysis capabilities in future plans

MEDICAL MALPRACTICE CLAIM PREDICTION — August 2023 – December 2023

- Implemented five regression models, including manual implementations and library-based (e.g. Scikit-Learn) approaches, to predict medical malpractice claim amounts
- Conducted rigorous comparative analysis using statistical metrics such as MSE, RMSE, and p-Value to improve predictive accuracy

POCKET PLANNER — September 2022 – June 2023

- Developed a mobile scheduling application containing unique features geared towards college students using React Native and AWS Amplify
- Allows for real-time updates to streamline communication between professors and their students
- Leveraged GraphQL for efficient data querying, optimizing app performance and reducing load times