

SAMARTH RAIPAL

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EDUCATION

- University of Florida** Gainesville, USA
• *Masters - Computer Science; GPA: 3.92/4* Aug 2022 - May 2024
Courses: Distributed Operating System, Deep Learning for Computer Graphics, Advanced data structure
- Vellore Institute of Technology** Chennai, India
• *Bachelor of Technology - Electronics and Communication; GPA: 8.27/10* July 2018 - June 2022
Courses: Java, Data Analytics, Computer Architecture, Python, C, C++

EXPERIENCE

- Cryptan Labs** Miami, FL, USA
• *Full Stack Engineer — Machine Learning Lead* Aug 2023 - Present
 - Engineering Leadership:** Led iOS app development and firmware optimization, emphasizing Agile methodologies. Directed the development of AI-based prototypes and contributed to advanced robotics projects.
 - Salesforce Integration and Innovation:** Involved in integrating Salesforce solutions to streamline CRM processes. Leveraged Salesforce platforms to enhance data management and customer interaction capabilities within developed applications.
 - Innovative Solutions:** Developed Generative AI models in Unity for dynamic asset creation. Collaborated on AI and blockchain projects, demonstrating versatility in technology adaptation and application.
- Department of Biostatistics, University of Florida** Gainesville, USA
• *ML Research Assistant* July 2023 - Aug 2023
 - Data Analysis and Research:** Utilized Python and R for genomic data analysis. Collaborated on experimentation and causal inference studies.
- IFAS/HOS biofoundry** Gainesville, USA
• *Automation Assistant* May 2023 - June 2023
 - Process Automation:** Integrated Python programming for lab automation, optimizing processes and establishing protocols.
- Independent Android Developer** Remote
• *Self-Employed* 2020 - 2022
 - App Development and Distribution:** Designed, developed, and maintained two Android applications with a focus on user-centric design and functionality. One app achieved over 1,000 downloads, reflecting strong market acceptance.
 - User Engagement and Feedback:** Implemented features based on user feedback to enhance application performance and user satisfaction. Engaged with users through multiple channels to gather insights and iterate on product offerings.

SKILLS SUMMARY

- Full Stack Development:** Proficient in full-stack development with key technologies including React, Node.js, and TypeScript. Experienced in building scalable web applications and maintaining front-end user interfaces with modern frameworks like React.
- Machine Learning and Data Science:** Strong foundation in machine learning, with practical experience in deploying models using Python libraries (Pandas, Scikit-Learn, TensorFlow). Familiar with developing and tuning algorithms for applications in natural language processing and computer vision.
- Mobile Application Development:** Developed and published individual apps on the Google Play Store with successful user adoption. Experience includes working with Android SDK, integrating APIs, and managing user data effectively.
- Agile and DevOps Practices:** Practiced in Agile development methodologies and DevOps practices, enhancing team productivity and efficiency. Proficient in tools like GIT for version control, Jenkins for continuous integration, and Docker for containerization.
- Database and Data Management:** Skilled in managing both SQL and NoSQL databases, including PostgreSQL, MySQL, and MongoDB. Expertise in data modeling, optimization, and integrating robust database solutions with back-end applications.
- Cloud Technologies and DevOps:** Experienced in using AWS services (EC2, S3, RDS, Lambda) for deploying scalable applications. Knowledgeable in setting up and maintaining cloud environments to support enterprise-level applications.

PROJECTS

- **Blockseat: Ticketing iOS App:** (Developed at Cryptan Labs)
 - Co-developed "Blockseat," an app published on the App Store, employing React Native, Expo, and blockchain technology.
 - Focused on both frontend and backend development, ensuring a seamless user experience and efficient data processing.
- **Migraine Tracker Application:** (08/23-12/23)
 - Developed a comprehensive application using React and Node.js, integrating predictive analytics for enhanced utility.
- **Personalized Itinerary Creator:** (08/23-12/23)
 - Created a tool for generating personalized travel plans using GPT and Bard AI models and LangChain for advanced language processing.
 - Integrated various APIs for dynamic content and recommendations, enhancing user engagement.
- **Sentiment Analysis Comparative Study:** (12/2022 - 05/2023)
 - Conducted a study comparing LSTM and attention-based models for sentiment detection, highlighting performance differences.
- **Heartbeat Classifier:** (03/2021 - 07/2021)
 - Developed a web app for classifying heartbeats using 2D CNN, showcasing skills in Python and machine learning.