

Rajaarun Arulraj

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Education

Master of Science

Georgia Institute of Technology

Atlanta,GA

- M.S Computer Science

Bachelor of Science

California State University East Bay

Hayward,CA

- B.S Computer Science, B.S Chemistry

Experience

Software Engineer

C3.ai

Redwood City, CA

08/2024 - Current

- **Developed full-stack solutions** using **JavaScript, Python, and React**, designing and implementing user-friendly interfaces and backend APIs that support seamless data integration and high-performance application features.
- **Designed, trained, and deployed AI/ML models** tailored for specific use cases, including predictive analytics and data-driven insights, improving decision-making processes and enhancing the overall intelligence of applications.
- **Implemented DevOps practices**, such as continuous integration and automated testing, to streamline the deployment pipeline, reduce system downtime, and ensure smooth updates for both development and production environments.
- **Built Agentic AI pipeline tools** that helped developers accelerate the development process by 50%, streamlining **model training and deployment**.
- Supported **application deployment** by leveraging containerization tools such as **Docker, improving scalability, consistency, and reliability** across multiple environments.

Mobile Application Developer

UC Berkeley

Berkeley, CA

01/2024 - 08/2024

- Developed an **Android** survey app to educate students on Indoor Environmental Quality (IEQ) and its effects, enhancing awareness and understanding through interactive **mobile** technology. The app, adopted by hundreds of students, tracks IEQ scores and provides real-time insights.
- **Leveraged Android Studio and Kotlin** to design, develop, and optimize the survey app, ensuring smooth functionality and compatibility across a wide range of **Android** devices. Integrated an **API** to connect the app with Google Maps, enabling location-based tracking of IEQ data for a more comprehensive user experience.
- Designed and implemented an **AI-driven model** within the app to analyze IEQ score trends over time and generate future projections, providing users with personalized, actionable insights to improve environmental quality.
- Developed a lightweight **machine learning module** to predict potential IEQ issues based on user-reported data and environmental patterns, enabling proactive recommendations to enhance indoor environments.

Founding AI Engineer

Soundromeda

Los Angeles, CA

012/2022 - 01/2024

- Promoted to Head of **AI** due to outstanding contributions in **AI Innovation** and **Strategy**.
- Designed, trained, and deployed robust **AI** models using **TensorFlow** and **PyTorch**, ensuring high accuracy and efficiency for various tasks in **machine learning**.
- Applied advanced **AI** algorithms to create emotionally resonant songworlds, utilizing trained models for sophisticated **dataset processing** and enhancing the auditory experience.
- Demonstrated extensive proficiency in **Python** and **C++** for developing, optimizing, and implementing high-performance **AI** systems and solutions.
- Led the creation and implementation of cutting-edge **AI** solutions, continuously pushing technological boundaries to achieve significant advancements and impactful results in **AI** engineering.

Junior AI Engineer

Elloe AI

San Mateo, CA

05/2023 - 08/2023

- Engineered, trained, and evaluated **AI** models utilizing **Python** libraries such as **Keras, TensorFlow, and spaCy** to significantly enhance natural language processing performance.
- Facilitated data tasks encompassing collection, annotation, cleaning, and optimization to ensure the generation of **high-quality datasets**, essential for effective **AI** model training.

Projects

- **Prompt Craft** : a **Python**-powered feature within an **AI-driven** Dungeons and Dragons (D&D) system. PromptCraft autonomously generates dynamic storytelling prompts, fostering creativity and unpredictability for an enhanced **user experience** during gameplay.(05/2023)
- **RuneOS** : Extensive experience with RuneOS, a performance-focused minimal **OS** built on **Rust**.(10/2022)
- **Emotion Tracker** : Built an eye-tracking emotion detection system using **Python**, combining **computer vision (OpenCV)** and **machine learning models** to analyze gaze patterns and classify emotional states in real time.(08/2024)
- **Gillie AI** : Gillie AI is a **Node.js** web application deployed on **Vercel** that uses **computer vision models** for fish species identification and disease detection. Users upload images, and the app delivers real-time insights to support aquarium health management.(08/2025)

Skills

- Python | C++ | Rust | C | Java | JavaScript | C# | React | Vue | Redux | jQuery | SQL | NoSQL | Git | Perl | Unreal Scripting
- Deep Learning | TensorFlow | PyTorch | spaCy | Scikit-learn | OpenCV | Pandas | NumPy | Data Pipelines | Predictive Modeling
- Microservices | Distributed Systems | Backend | Frontend | Full-Stack | Cloud (Azure, AWS) | CI/CD | Docker | Unit Testing