

Jaiharishan Arunagiri Veerakumar

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TECHNICAL SKILLS

Programming Languages: Python, C++, Java, Javascript, Typescript, Go, Pony, SQL

Frameworks and Tools: HTML, CSS, Node, React, Next, Cypress, Express, Django, Flask, Docker, GIT, MySQL, PostgreSQL, MongoDB, GraphQL, Redis, Firebase, OpenCV, Numpy, Pandas, Tensorflow, AWS, GCP, Linux, Bash, Kafka, Kubernetes, Scala, Spark

PROFESSIONAL EXPERIENCE

Machine Learning Researcher

May 2023 - July 2023

National Institute of Technology Tiruchirappalli

Tamil Nadu, India

- **Skills:** Python, Keras, TensorFlow, Google Colab, Computer Vision, CNN, Transformers
- Collaborated and engineered a variation of the ResNet architecture in combination with Vision Transformer for medical image classification using the DRAC dataset.
- Achieved a remarkable accuracy of 98.5% and a kappa score of 0.93, outperforming traditional models.

Software Developer Intern

May 2022 - July 2022

Solgames.fun

Bangalore, India

- **Skills:** React, Typescript, ChakraUI, Redux, Axios, Web3.js, web3-react, Phantom Wallet, GIT, Docker
- User Dashboard Development: Spearheaded the development of the user dashboard, resulting in a 50% improvement in user retention.
- Innovated and implemented a secure authentication framework, strengthening data protection and decreasing account breaches by 50%, providing a safer user experience for 2000+ active users.

LYNX | Software Engineer | Spider R&D

Sep 2021 - Jan 2022

- **Link -** https://play.google.com/store/apps/details?id=org.spider.nittapp&hl=en_US&pli=1
- Contributed to the development of the backend for the LYNX application, a college social platform with more than 5000+ users.
- Streamlined authentication using JWT. Designed and developed various API routes.
- Enhanced user engagement by 75% through the implementation of a full-text search feature.
- Created automated API testing scripts, reducing development time by 20%.

PROJECTS

Zine | Backend Developer | Personal Project

Jan 2025 - Apr 2025

- **Skills:** Next, TailwindCSS, Go, Redis, AWS, Docker, MongoDB
- Developed full-stack journaling platform using Go, Next.js, and MongoDB with JWT/OAuth authentication, AWS S3 storage, and RESTful APIs supporting 4+ core features including blog creation and calendar integration.
- Implemented scalable backend services with Redis caching, Swagger documentation, and Docker containerization, achieving 90%+ test coverage across 15+ API endpoints and production deployment with comprehensive unit testing.
- Built responsive React frontend with LiveBlocks real-time collaboration, BlockNote rich text editor, calendar widgets, and dark/light theme toggle, serving 4+ user-facing pages with seamless authentication and profile management workflows.

Reddit Engine | Software Developer

Sep 2024 - Nov 2024

- **Skills:** Go, Distributed Systems, API, Docker
- Built Reddit-like social media API in Go with 12+ REST endpoints using Gin framework, supporting user registration, post/comment creation, voting system, and subreddit management with JSON serialization.
- Implemented actor-based distributed architecture using ProtoActor framework with Protocol Buffers and gRPC, enabling concurrent message passing and thread-safe state management across multiple actors
- Developed comprehensive voting/karma system with real-time calculation, nested comment threading, and direct messaging functionality using map-based data structures and concurrent access patterns

EDUCATION

University of Florida | Gainesville, FL

May 2026

M.S. in Computer Science

Relevant Courses: Database Management System, Advanced Data Structures, Computer Networks

National Institute of Technology Tiruchirappalli | Tamil Nadu, India

May 2024

B.Tech. in Production Engineering

Relevant Courses: Web Technology, Foundations of Programming, Design and Analysis of Algorithms, Software Project Management