

Sunu Aariyan

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PortFolio-<https://portfolio-1-xlzb.onrender.com/>

Aspiring Full Stack Developer with hands-on experience building API-driven web applications and machine learning models. Proficient in MERN stack, RESTful APIs, real-time data visualization, and currently expanding skills in Java and Spring Boot. Pursuing B.Tech in Computer Science (3rd year) at MITS, Kochi, eager to contribute to innovative web and software development projects.

EDUCATION

Muthoot Institute of Technology and Science – Kochi, Kerala

Bachelor of Technology in Computer Science and Engineering — Expected May 2027

- Current Standing: 3rd Year Student
- Relevant Coursework: Data Structures & Algorithms, Web Development, Operating Systems, Database Management Systems, Microprocessors & Microcontrollers, Computer Architecture, Computer Networking

WORK HISTORY

Corizo – Machine Learning Intern June 2024 – August 2024 Corizo is an ed-tech company offering mentor-led, industry-relevant training in tech like full stack development, AI/ML, and data science to help students become job-ready.

- Developed a **network-traffic anomaly detection pipeline** using **Python**, leveraging **Pandas** for data preprocessing and feature engineering.
- Applied unsupervised machine learning models—**k-Nearest Neighbors**, **Deep Autoencoder** (via **TensorFlow/Keras**), and **Isolation Forest**—to detect anomalous networks.
- Evaluated model performance using metrics like **precision**, **recall**, and **ROC/AUC**; compared algorithms and selected the most effective for detecting trace anomalies.
- Automated end-to-end workflow: from **data ingestion and cleaning** to **feature extraction**, **model training/testing**, and **result visualization**.
- Technologies/tools used: **Python (Pandas, NumPy)**, **Scikit-learn**, **TensorFlow/Keras**, **Jupyter Notebook**, **Matplotlib/Seaborn** for visualizations.

BlueStocks – Software Engineer Intern January 2025 – March 2025 Bluestock is a Pune-based fin-tech company offering a stock market analytics platform with real-time data, IPO tools, broker comparisons, and a community for traders, with over 500,000 users.

- Built a responsive stock analytics website for Bluestock using the **PERN stack (PostgreSQL, Express.js, React.js, Node.js)**.
- Integrated real-time stock market **APIs** and visualized data using **Math.js and chart libraries**.
- Used **Tailwind CSS** to design a clean, mobile-friendly UI.
- Implemented **bot detection logic** to ensure secure API access and user authenticity.

- Delivered **interactive charts and dashboards** to display IPO trends and stock performance.

PROJECTS

Trav-Mov – Movie-Based Itinerary Generator

(Live at: [TRAV-MOV](#))

- Developed a dynamic, API-driven travel planning platform that generates custom itineraries based on selected movies.
- Built using the **MERN stack (MongoDB, Express.js, React.js, Node.js)** with **RESTful API architecture** for seamless data movement.
- Integrated third-party **movie data APIs** (e.g., TMDB) and **geolocation APIs** to map user settings to real-world travel destinations.
- Implemented **lazy loading, JWT-based authentication**, and **responsive UI** with **Tailwind CSS** to enhance user experience and performance.
- Deployed the application with **Render** and **MongoDB Atlas**, ensuring cloud-based scalability and persistent storage.

Moro – Custom Programming Language

(Info at : [MORO LANGUAGE](#))

- Designed and implemented a **custom compiler** that processes source code through **lexical, syntactic, and semantic analysis, ensuring accurate parsing and interpretation**.
- Developed a multi-target code generator capable of producing Java bytecode, native Java, and C code, enabling **cross-platform execution of programs written in Moro**.
- Implemented **production-grade error handling**, providing detailed, stage-specific error messages to assist developers in debugging and understanding compilation issues.
- Engineered a flexible syntax and runtime system, supporting variable definitions, basic commands, and extendable language features.
- Demonstrated end-to-end compilation workflow, from source code input to executable output, showcasing expertise in compiler design, parsing algorithms, and code generation.

OPEN-SOURCE CONTRIBUTIONS

Actively contributed to open source projects, including **Hacktoberfest 2025**, completing 6 pull requests in a month. Recent contributions include improving UI/UX responsiveness on search bars, homepage, and footers, fixing a notification icon overlap bug, and enhancing layout consistency across mobile, tablet, and desktop devices. Collaborated with maintainers to debug, refine, and improve code quality, gaining recognition as an active participant in the community.

SKILLS

- **Languages:** Python, Java, C, JavaScript, SQL
- **Frameworks:** React.js, Node.js, Express.js
- **Libraries:** TensorFlow, Pandas, NumPy, Scikit-learn, Math.js
- **Styling:** Tailwind CSS, Bootstrap
- **Databases:** MongoDB, PostgreSQL
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, Render, Vercel, RESTful APIs
- **Concepts & Methodologies:** Agile, Test-Driven Development (TDD), CI/CD, API Integration, JWT Authentication, Responsive Web Design, Data Visualization, Unsupervised Learning, Anomaly Detection