

ROHIT A S

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EDUCATION

VIT Chennai

B. Tech CSE (AI & ML)
Aug 2023 - present (Exp. May 2027)
CGPA: 8.36 / 10.0

IIT Madras

B.S. Data Science and Applications
Sep 2024 - present
CGPA: 7.5 / 10.0

SKILLS

Languages

Python (Advanced)
JavaScript, TypeScript (Proficient)
Java, C, C++ (Basic)
SQL, Bash

Web Frameworks/Libraries

React, Next.js, Vite
FastAPI, Flask, Node.js
MongoDB, PostgreSQL
TailwindCSS

Cloud/DevOps

Linux Administration
Google Cloud (GCP)
AWS (Basic)
Docker, Kubernetes
Cloudflare Zero Trust

AI/ML

PyTorch, TensorFlow
RL: tf-agents, stable-baselines3
Scikit-Learn, Pandas, NumPy

Non-Technical

Agile Concepts
Team Collaboration
Project Management

Other Tools

Adobe Creative Suite
Figma (UI/UX Design)
Git, GitHub Actions CI/CD
Postman

LINKS

GitHub: [rrex971](https://github.com/rrex971)
LinkedIn: [rohitas727](https://linkedin.com/in/rohitas727)

EXPERIENCE

Schneider Electric

Data Analyst Intern

Bangalore, Karnataka

May 2026 – July 2026

- Developed an internal Copilot prompt library platform using **Power Platform** (Power Apps, Power Automate), SharePoint Lists and Sites, Office 365, Microsoft Teams, and SPFx web parts to create robust visual frontends and maintain usage telemetry across the department.
- Built KPI dashboards and adoption-tracking landing pages in Power Apps, driving **40% improvement** in engagement visibility and usage monitoring.
- Automated telemetry collection, metric calculations, and scheduled data refreshes via **Power Automate** flows, reducing manual reporting overhead by **65%**.

atmosol

AI & ML Intern

Remote

June 2025 – July 2025

- Designed a **Reinforcement Learning** framework using stable-baselines3 (SAC Agent) to optimize Return on Ad Spend (ROAS) for PPC ad campaigns, achieving **22% improvement** over naive allocation baseline.
- Modeled an **Offline Simulation Environment** to train agents on simulated data to mitigate financial risks associated with live exploration.
- Implemented data pipelines to preprocess high-dimensional ad-spend metrics into state-action pairs for the RL agent.

PROJECTS

re:Pad (Magnetic Hall Effect Game Controller)

[Repo Link](#)

C, RP2040, KiCad, Electron, Hardware Integration

- Built a custom 3-key Hall-effect based controller with modified QMK firmware and Electron based configurator.
- Designed a PCB in KiCad with RP2040 base and a 3D printed enclosure.
- Wrote millisecond-level polling firmware with dynamic actuation from magnetic field strength.

RSERV (Autonomous Exploration Rover)

[Repo Link](#)

Python, ESP32, PyTorch (stable-baselines3), PPO

- Built a rover using **Proximal Policy Optimization (PPO)** for autonomous navigation and target detection.
- Offloaded vision and RL inference from ESP32-CAM to wireless edge base stations.
- Implemented real-time video/sensor pipelines for reward shaping under tight hardware limits.

Finstox (Algo-Trading Dashboard)

[Repo Link](#)

React, FastAPI, LSTM, Web Scraping, Explainable AI (SHAP, LIME)

- Built a full-stack trading dashboard for Indian equities using NSE data pipelines.
- Served 7-day forecasts from a custom LSTM model architecture through FastAPI.
- Added SHAP and LIME explanations for indicator-level prediction transparency.

MISCELLANEOUS

Home Lab Infrastructure

- Self-host and maintain a Linux home server (Arch Linux) running microservices securely exposed via **Cloudflare Zero Trust Tunnels**, achieving 99.5% uptime.
- Manage ZFS pool storage across multiple drives with redundancy, networking, and Docker containerization for self-hosted services.

Open Source Contributions (osu!)

- Contributed multiple bug fix PRs to [osu!](#) (popular rhythm game with 13K+ stars), gaining experience navigating a large-scale C# codebase.
- Notable PRs: ([PR #23020](#), [PR #35925](#)).