

# RISHI KESH S K

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## Education

<b>Amrita Vishwa Vidya Peetham</b> , Computer Science and Engineering – Coimbatore, Tamil Nadu	2023 – 2027
• CGPA: 8.86/10.0	

<b>Higher Secondary Education</b> , Coimbatore, Tamil Nadu	2021 – 2023
• Percentage: 96.67%	

## Experience

<b>Full Stack Web Developer</b> , Research Intern - Sony SSUP – Coimbatore, Tamil Nadu	Jan 2025 – Sep 2025
• Built a scalable production-ready backend using Next.js and Node.js (TypeScript) with REST APIs, Redis caching, and Server-Sent Events (SSE) for real-time data streaming, deployed with public access.	
• Designed a real-time IIoT data architecture integrating PostgreSQL for transactional data, InfluxDB for time-series sensor data, and GraphDB for relationship-based analytics to support intelligent solar dryer operations.	

## Projects

### Paper Scrape

- Engineered a robust backend in GoLang for the "Paper Scrape Project," enabling faculty and students to efficiently retrieve research papers based on keywords.
- Designed and implemented scalable data acquisition pipelines utilizing Kafka for message queuing, advanced web scraping tools (e.g., Playwright) with proxy management, and optimized data storage across Redis, GraphDB, and PostgreSQL for enhanced reliability and performance.

### IntelliPdM – Edge-Cloud Predictive Maintenance System

[Github]

- Built a hybrid edge–cloud IIoT framework for real-time predictive maintenance using LightGBM, LSTM, and Deep Q-Network (DQN) scheduling.
- Achieved 40% downtime reduction and 43% cost savings with intelligent task offloading via MQTT-based sensor streaming.

### Solforge - Token Launchpad

[Website]

- Developed a full-stack Next.js DApp enabling users to create custom SPL tokens with metadata on the Solana blockchain (Devnet) and transfer these non-native tokens between connected Solana wallets.
- Implemented robust features such as custom token creation, metadata uploading, token viewing, and direct transaction viewing via Solana Explorer, enhancing user interaction with the Solana ecosystem.

### Second Brain

[Github]

- Developed "Second Brain," a web application that enables users to organize and manage digital content like YouTube videos, tweets, documents, and links.
- Implemented a tagging system for easy categorization and retrieval, creating a personalized digital library.

## Skills

**Programming Languages:** Go, Java, C/C++, Python, JavaScript/TypeScript

**Web Development:** Next.js, React.js, Node.js

**Databases:** MySQL, PostgreSQL, MongoDB, InfluxDB, Redis

**DevOps & Cloud:** Docker, AWS, Kafka

**Blockchain:** Solana, Rust Smart Contracts

**Development Tools:** Git, GitHub, Postman, VSCode, Linux