

AASHISH VINU

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[Email](#) ◊ [GitHub](#) ◊ [Linkedin](#)

OBJECTIVE

Specializing in Back-End Development and Project Management. Adept at designing scalable systems, leading teams, and delivering efficient software solutions.

EDUCATION

Bachelor of Computer Science, APJ Abdul Kalam Technological University

Expected 2026

SKILLS

Technical Skills

- Programming: Python, Arduino, Java, C, FastAPI, Django, REST API
- Data Analysis and Database Management: PostgreSQL, MySQL, Redis
- DevOps: Docker, NGINX, GitHub Actions, CI/CD Pipelines, gRPC

EXPERIENCE

Back-End Developer

Jan 2024 – Nov 2025

Hoomans Project

Trivandrum, Kerala

- Designed the database architecture and backend system for [MakeMyPass](#), ensuring scalability and high availability to support **60,000+ active users** and **1,300+ events**, generating **\$150K+ ticket sales**.
- Built and scaled the backend using **FastAPI**, **PostgreSQL**, Redis, and Arq Workers, enabling high performance and fault tolerance.
- Implemented **Redis Pub/Sub** to efficiently handle WebSocket communication issues, improving real-time event updates.
- Reduced inter-service call latency by introducing **gRPC** for high-speed, low-overhead communication between microservices.
- Added **database-level and Redis-level locks** to prevent simultaneous/conflicting entries, ensuring data consistency and reliability under high concurrency.
- Streamlined deployment using **NGINX**, **Docker**, **Grafana**, **Prometheus**, and automated CI/CD pipelines with GitHub Actions, ensuring reliable releases and proactive system monitoring.

Back-End Lead

Feb 2023 – Mar 2024

Gtech Mulearn

Trivandrum, Kerala

- Developed the database architecture and backend using Python **Django** and **MySQL** for the [pLearn](#) web platform, enabling reliable performance and scalability for a community of **50,000+ users** with an estimated **20,000+ monthly visits**.
- Developed a networking application, *The Maze*, successfully deployed and used by **1000+ participants** at the IEDC Summit 2023 and Huddle Global 2023 (Top100Coders).
- Managed and directed the creation of the **YIP KERALA** website, serving as Project Manager from design to deployment.
- Led a remote team of 12 members, coordinating tasks and maintaining smooth collaboration.

Back-End Intern

Gtech Mulearn

Dec 2022 – Feb 2023

Trivandrum, Kerala

- Migrated and optimized the legacy Aaronchettan bot, rebuilding it with Python, Discord.py, and MySQL to automate task submissions and karma point assignments. The updated system now supports a community of **50,000+ Discord members**, with **15,000+ active users** monthly.
- Collaborated across teams to enhance communication and development processes through Jira for task management and sprint planning.

IoT and Robotics Intern

Rotech Edu

Jan 2019 – Mar 2020

Kozhikode, Kerala

- Participated in the **First Lego League** championship, designing and building LEGO robots while applying core principles of mechanics and programming.
- Implemented an automated school bell system using **Arduino** during high school, which eliminated manual ringing. The system was implemented in my school and continues to be in use.
- Created a home automation system powered by **NodeMCU** and relays, enabling full control via mobile and voice commands.
- Implemented **Raspberry Pi** applications and gained hands-on experience in 3D printing and rapid prototyping.

PROJECTS

Secret Pixel: A web application implementing steganography principles for secure data transmission.

Minute Discord Bot: A Discord bot that records voice chat discussions and generates meeting summaries.

PRODUCTS

Hoogo: Community networking tool, first built in a day and now scaled to **35,000+ users**. Powered by FastAPI, PostgreSQL, gRPC, and Redis Pub/Sub for WebSocket management.

EXTRA-CURRICULAR ACTIVITIES

- Active member of [IEDC](#), [IEEE](#), [Mulearn](#), [TinkerHub](#), [Pygrammers](#).
- Served as a judge at [Karma Tech Fest](#) and [Yukti Tech Fest](#) hackathons.
- Organized multiple hackathons, including [Grand Tech Adventure](#), [Scaleup](#), [Top100Coders](#).
- Managed events for [Sunbird](#), [Mulearn](#), [Kerala Startup Mission](#).

ACHIEVEMENTS

- **Leadership:** Successfully led and mentored teams in both professional and extracurricular capacities.
- **Event Management:** Planned and executed large-scale events, driving participation and engagement.
- **Technical Expertise:** Delivered impactful software solutions, optimizing system performance and user experience.
- **Research:** Conducted research on multimodal steganography and published a paper in IRJMETs ([March 2025](#)).

DECLARATION

I solemnly affirm that all the details provided in this resume are accurate and true to my knowledge. I take full responsibility for the correctness of the information.

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Aashish Vinu

