

Sai Kannadkar

Backend Developer — Systems Thinking

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EXPERIENCE

Core Team Member - Founder's Office

Dec 2025 – Present

Voxel Networks

- Led execution of operations and marketing initiatives improving engagement and outreach
- Built and optimized internal workflows for faster execution and coordination

Community Lead & Organizer

Mar 2025 – Present

SECT India

- Scaled community engagement through events and initiatives reaching 1000+ students
- Organized and managed large-scale technical events and programs

PROJECTS

Drona | *Python, System Design, Clean Architecture, Dependency Injection, Pytest, MyPy, Ruff* | [GitHub](#)

- Designed and implemented a production-grade modular framework for autonomous drone mission management
- Architected a centralized Mission Manager coordinating planning, docking, and health monitoring subsystems
- Applied system design and clean architecture principles to ensure scalability and maintainability
- Built abstraction layers (PoseProvider, ActuatorInterface, PathPlanner) enabling hardware-independent integrations
- Enabled seamless integration with external systems (e.g., MAVLink, VICON) without modifying core logic
- Integrated testing, static type checking, and linting using Pytest, MyPy, and Ruff

LinkVault | *Next.js, React, TypeScript, PostgreSQL, Prisma, Tailwind CSS, NextAuth* | [GitHub](#)

- Improved link retrieval performance by 40% using optimized search and filtering algorithms
- Developed a full-stack web application with secure Google OAuth authentication and session management
- Designed and implemented RESTful APIs supporting CRUD operations for structured link data
- Built scalable backend using Prisma ORM with PostgreSQL (Neon) for efficient data handling
- Implemented tag-based filtering and categorization for improved data organization
- Deployed production-ready application on Netlify

TECHNICAL SKILLS

Languages: Python, Java, C++

Concepts: System Design, Object-Oriented Programming

Web Technologies: React, Next.js, REST APIs

Databases: PostgreSQL, MongoDB

Core Computer Science: Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks

Tools: Git, GitHub, Prisma, Postman

EDUCATION

Sandip University

Bachelor of Technology in Computer Science

Nashik, India

Aug 2023 – July 2027

EXTRACURRICULAR ACTIVITIES

- Co-organized NASA Space Apps Challenge with 1500+ participants; managed check-ins and maintained high-availability network infrastructure
- Community Lead at SECT India (Society of Engineering & Computer Technology) (2025 – Present)
- Training & Student Placement Coordinator, Sandip University (May 2025)
- Executive Member, School of Computer Science & Engineering Student Council, Sandip University (2025 – Present)