

Satvik Sangamkar

Backend Software Engineer

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Education

Bachelor of Technology (BTech) in Computer Engineering

Vishwakarma Institute of Information Technology, Pune | CGPA: 8.66 | 2024

Professional Experience

Backend Software Engineer Intern

SHMTH Research LLP, Pune | May 2025 - September 2025

- Contributed to Blade Terminal (Trader OS) development by building backend infrastructure for real-time financial data processing
- Implemented JWT authentication, Role-Based Access Control (RBAC), and engineered optimized data filtering functions for live orderbook processing
- Utilized Git/GitHub for collaborative development and version control

Technical Skills

Programming Languages: Python, JavaScript, HTML, CSS, SQL

Backend Framework: FastAPI

Databases: Redis, MongoDB, MySQL, PostgreSQL

Authentication & Security: JWT, OAuth 2.0 (Google, Discord), Argon2, BCrypt, CORS

AI/ML Technologies: CrewAI, Google Gemini AI, Scikit-learn, Pandas, NumPy

Web Scraping: Botasaurus, BeautifulSoup, Selenium

Development Tools: Git, GitHub, Docker

Version Control: Git, GitHub

Projects

✉ Authentication Service

GitHub: github.com/satviksangamkar11/Authentication

- Built multi-provider authentication service supporting Email/Password, Google OAuth, and Discord OAuth
- Implemented JWT token management with version control for immediate security invalidation
- Developed OTP email verification system and secure password reset functionality
- Created Redis-based session management with TTL mechanisms for rate limiting
- **Technologies:** FastAPI, Redis, JWT, OAuth 2.0, Argon2, BCrypt, SMTP integration

✉ CrimeScout AI

GitHub: github.com/satviksangamkar11/CrimeScout-AI

- Developed multi-agent crime news scraper and analyzer using CrewAI framework
- Implemented automated 12-hour scraping cycles with quality validation agents
- Built Telegram bot integration for automated news posting and notifications
- Created anomaly detection system using Google Gemini AI for content analysis
- **Technologies:** Python, CrewAI, Google Gemini AI, MongoDB, Telegram Bot API, Botasaurus

✉ Realtime Amazon Product Sentiment Analysis

GitHub: github.com/satviksangamkar11/Realtime-Amazon-Product-Sentiment-Analysis

- Built real-time sentiment analysis tool for Amazon product reviews classification

- Implemented web scraping system for automated review data collection
- Developed machine learning pipeline using Scikit-learn for sentiment prediction
- **Technologies:** Python, Scikit-learn, Pandas, BeautifulSoup, Machine Learning, Data Analysis

▯ **Blade News Center**

GitHub: github.com/satviksangamkar11/Blade-News-Center

- Created automated news aggregation platform from multiple sources
- Implemented intelligent deduplication algorithms to prevent content redundancy
- Built scheduling system for automated news collection and processing
- **Technologies:** Python, Web Scraping, Automated Scheduling, Content Processing, Data Deduplication