

SAIKUMAR

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EDUCATION

Sir M Visvesvaraya Institute of Technology

Bengaluru, India

Bachelor of Engineering in Computer Science & Engineering — 6th Semester (3rd Year)

Sept 2023 - 2027

- Strong foundation in Data Structures, Algorithms, Software Engineering, Operating Systems, Database Management System, Computer Networks, Machine Learning, and System Design

TECHNICAL SKILLS

Languages: Python, C++, C, Javascript

Backend: Django, Django REST Framework, Flask, Redis(Lua scripts), Celery, Nginx, Uvicorn, Docker

Frontend: React, JavaScript, HTML5, CSS3, TailwindCSS, Material-UI

Databases: PostgreSQL, SQLite3, SQL, Cassandra, SSMS,

Cloud & Tools: AWS, GitHub, RESTful APIs, CI/CD, Bash

Core: Monolithic architecture, System Design, API Design, Database Optimization, ETL Pipelines, (module:nanodjango)

ACHIEVEMENTS & OPEN SOURCE

Problem Solving: Solved 700+ DSA problems across LeetCode & GeeksforGeeks; Peak global rank 768 (virtual) among 60K–80K participants

Open Source: Accepted PRs in **Microsoft** (vscode-python, devcontainers), **Django** (docs + bug fix), **TailwindCSS** (active implementation discussion); contributed to 10+ projects with bug fixes, features, and peer reviews

Platform Contribution: Reported and corrected verified problem errors on GeeksforGeeks; TailwindCSS implementation discussion ongoing

Research: Two papers pending verification (AI-based caching & Smart Finance architecture)

GitHub: Active contributor with 50+ repositories showcasing real-world projects and consistent learning

Repo: Building a 3+ Repo which has all the usecase and tackle any issue related to the tech with the help of community

PROJECTS & EXPERIENCE

Smart Finance Manager | Full-Stack Web App | Django, React, TypeScript, SQLite, Git

Sept 2025 – Nov 2025

- Built secure full-stack finance tracking application with authentication, budgeting workflows, and visual dashboards serving users with 99% uptime; currently migrating to React with TypeScript for modern component-based architecture
- Developed RESTful backend services using Django ORM following MVC pattern, integrating client-server communication with JavaScript Fetch API and implementing data validation for scalability

Financial Data Warehouse System | SQL, SSMS, Python (ETL)

Apr 2025 – Jun 2025

- Designed enterprise data warehouse schema using star and snowflake modeling to support real-time analytics and reporting for financial data consolidation
- Developed automated ETL pipelines in Python for data ingestion, cleansing, and transformation from multiple sources, optimizing SQL queries through strategic indexing and normalization improving aggregation performance by 35%

Compiler Construction (Mini Compiler) | Python, C++

Apr 2025 – Sep 2025

- Implemented complete compiler pipeline including lexical analysis, parsing, AST generation, semantic analysis, and intermediate code generation for custom programming language with robust error-reporting mechanisms
- Designed modular architecture separating compiler components for debugging efficiency and maintainability following software engineering best practices

System Design & Distributed Architecture Exploration | Microservices, AWS, Azure, GCP, C++

Nov 2025 – Dec 2025

- Researching scalable architecture principles including microservices, sharding, caching strategies (LRU), API rate-limiting, database partitioning, and distributed storage for high-traffic systems across hyperscalers (AWS, Azure, GCP)
- Developed proof-of-concept models demonstrating cloud-native compute, storage, and elasticity concepts for capacity planning and resource optimization
- Created and Maintained a working custom SERVER as Redis Server with sentinel Support

CERTIFICATIONS

Cloud: AWS Certified (Amazon/Forage); JP Morgan Software Engineering Virtual Experience (Forage)

Backend & Databases: Python Programming, Django, SQL Advanced, PostgreSQL, Database Design (GeeksforGeeks / HackerRank)

Infrastructure: Nginx, Linux, CI/CD, System Design, Web Development fundamentals, OpenSSL, Jenkins (Guvicorn, Daphne)

Additional: 15+ certifications from Google, Microsoft, IBM, LeetCode — covering ML, AI fundamentals, clean coding, debugging, and industry workflows