

# Vigneshwari Viswanathan

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LinkedIn | GitHub | Portfolio

## Professional Summary

Performance-driven **Python Developer** with a **9.01 CGPA** and extensive hands-on experience in **Backend Engineering** and **System Design**. Proficient in developing scalable web applications using **Python (Django, FastAPI)** and optimizing **SQL databases**. Expert in implementing **RESTful APIs** and real-time communication protocols using **Socket Programming**. Proven ability to work in **Agile/Scrum** environments to deliver clean, maintainable, and high-quality code.

## Technical Skills

- Languages:** Python, SQL, JavaScript.
- Backend Engineering:** Django, FastAPI, REST API Design, Multithreading, Socket Programming.
- Frontend Engineering:** HTML5, CSS3, Responsive Web Design.
- Databases:** MySQL, SQLite, Django ORM.
- Tools & Methodologies:** Git, GitHub, Postman, VS Code, Agile (Scrum), SDLC, Unit Testing.
- AI Awareness:** Foundational understanding of **Generative AI** and AI-assisted debugging tools.

## Professional Experience

**Full Stack Development Intern** | Uniq Technologies, Chennai

July 2025 – Present

- System Engineering:** Developed and maintained **backend modules** and **RESTful APIs** using **Python and Django**, focusing on database optimization and system scalability.
- API Development:** Designed and implemented **RESTful APIs** to facilitate secure client-server communication and dynamic data exchange.
- Optimization:** Performed rigorous **debugging and performance optimization** to ensure efficient backend data management.
- Collaboration:** Worked within an **Agile environment**, using **Git** for version control and collaborative software delivery.

**Python Developer Intern** | Elevate Labs (Remote)

Aug 2025 – Sep 2025

- Software Architecture:** Built modular and reusable backend applications using **Object-Oriented Programming (OOP)** principles.
- Concurrency:** Developed a multi-client chat application utilizing **Socket Programming and Multithreading** for real-time data handling.
- Testing & Reliability:** Applied **unit testing** and structured exception handling to enhance application fault tolerance and reliability.
- Achievement:** Recognized as **Best Performer** for maintaining high coding standards and contribution to clean code practices.

## Key Project

**Multi-Client Real-Time Chat System** | *Python, Sockets, Multithreading, Git*

- High-Performance Architecture:** Engineered a real-time server supporting concurrent user sessions using **TCP/IP socket communication**, ensuring 100% packet integrity.
- System Optimization:** Designed modular backend architecture focusing on code reusability, efficient connection lifecycle management, and performance optimization to handle high throughput.
- Quality Assurance & Testing:** Implemented structured exception handling and unit testing to ensure fault tolerance and system reliability under load.
- Version Control:** Managed end-to-end project versioning, branching, and documentation on **GitHub** following industry best practices.

## Education

**B.E. Biomedical Engineering** | Mahendra Institute of Technology, Namakkal

Graduated 2024

- Academic Record:** Achieved a **CGPA of 9.01**, specializing in technical problem-solving and algorithmic thinking.