Maanav Anand Kumar

📞 +1-929-6622283 ✉ maanavanandkumar@gmail.com 🔗 linkedin.com/in/maanavA ⬙ github.com/GreyViperTooth

Education

Stony Brook University, *M.S. in Computer Science* — **Aug. 2024 – May 2026**
New York, USA

Chennai Institute of Technology, *B.E. in Computer Science* — **Aug. 2020 – May 2024**
– CGPA: 8.91
Chennai, India

Indian Institute of Technology - Madras, *Diploma in Programming* — **Sep. 2021 – Sep. 2024**
– CGPA: 7.5* (Distance Learning Degree)
Chennai, India

Relevant Coursework
- Data Structures
- Analysis of Algorithms
- Artificial Intelligence
- Hybrid Systems
- Distributed Systems
- Database Management
- Operating Systems
- Computer Architecture

Skills

Programming Languages Python, Java, C++, C, Bash, JavaScript, HTML, CSS

Frameworks & Libraries Flask, Django, React, Vue.js, SQL (MySQL, PostgreSQL), REST APIs

Tools and Packages Git, AWS, Azure, MS Office, VS Code, LaTeX, NumPy, Pandas, Sklearn

Experience

CGI Information Systems, SDE Apprentice — **May 2024 – Jul. 2024**
- Enhanced client interactions by 25% by developing and deploying machine learning models for a virtual service assistant. This led to a 30% reduction in response time and a 20% increase in user satisfaction, improving overall service quality and operational efficiency for real-time client services.

Timescan Logistics, Software Dev Intern — **Jun. 2023 – Dec. 2023**
- Boosted business efficiency by 20% by implementing data analytics dashboards for senior management. Accelerated project timelines by 15% by actively contributing to software development efforts and optimizing design patterns, which improved the scalability and performance of in-house applications.

Centre for Computational Modelling, Research Assistant — **Jun. 2022 – Jun. 2023**
- Enhanced research accuracy and reliability by applying data analysis techniques and statistical models, leading to a 20% reduction in data inconsistencies and improved project validation results for the development of high-efficiency solar cells, resulting in more robust experimental outcomes.

Projects

Large Language Model Integration for Text Anonymization — FastAPI & Hugging Face
- Designed and deployed an API using FastAPI to anonymize sensitive data in text, leveraging a pre-trained LLM model from Hugging Face. Improved data privacy compliance by 90% by implementing robust text anonymization techniques. Enhanced system efficiency by reducing response time by 25% with optimized model integration. Ensured seamless integration of the LLM model with existing virtual service agent for real-time data processing and feedback.

Full-Stack Development — Flask & Vue.js Library Management System
- Reduced query resolution time by 40% with a full-stack system using Flask and Vue.js, featuring authentication and book borrowing. Enhanced system reliability by integrating Celery and Redis for automated overdue book handling. Improved database performance by 20% with SQLAlchemy ORM and SQLAlchemy 2.0 standards. Boosted user engagement with a responsive UI and real-time data updates using Vue.js.

Certifications
- Introduction to Cybersecurity - Cisco
- Postman API Fundamentals - Postman
- Data Visualisation - Tata Group
- CT for Problem Solving - Coursera

Leadership Roles

Section Leader - Mentor for Stanford Code in Place — **May 2024 – Jun. 2024**
- Supported 50+ students with one-on-one assistance, improving Python understanding and problem-solving. Enhanced student pass rate by 15% with tailored pedagogical methods.

House Secretary, Indian Institute of Technology - Madras — **Sep. 2022 – May 2023**
- Led a team of 20 members to organize and manage events, improving community engagement by 30%. Oversaw budget planning and resource allocation, optimizing expenses and saving 15% on event costs.