

# TEJA GURUVELLI

US Citizen | gguruve@clemson.edu | linkedin.com/in/tjguruvelli | github.com/tj-guruvelli

## EDUCATION

### Clemson University

B.S. Computer Science | Minor in Cybersecurity

- **Scholarships:** Palmetto Fellows Scholar

Clemson, SC

December 2024

## RESEARCH EXPERIENCE & PROJECTS

### NVIDIA Capstone Project

August 2024 – Present

Clemson University School of Computing Capstone Program (Product Developer)

- Leveraging NVIDIA's architecture for benchmarking LLM/SLMs with GPUs to perform computational tasks and for accuracy on fundamental tasks using NVIDIA's NeMo microservices
- Collecting and generating synthetic datasets (NeMo Curator) for training LLMs to follow safety rules (NeMo Guardrails) in responses, improving the reliability of AI models without degrading their original capabilities

### Apply Away Job Tracking Application

August 2022 – December 2022

CECAS Spark Challenge (Frontend Developer)

- Streamlined the job application season process through a web extension, enabling one-click logging/tracking of applied jobs while providing a centralized platform interface in one place for easy viewing and organization
- Integrated compatibilities of 10+ websites such as LinkedIn, indeed, zip recruiter, handshake for the user interface to web scrape relevant job information and consolidated within the application

## PROFESSIONAL EXPERIENCE

### Argonne National Laboratory | Lemont, IL

June 2024 – August 2024

Research Intern

- Conducted experiments and resource analysis in environments with weak connectivity using **Python**, **TensorFlow**, and **Scikit-learn**, addressing potential challenges in vehicle performance for anomaly escalation under diverse operational stresses
- Engineered and integrated machine learning models using VEINS simulation framework to optimize the detection of anomalies in vehicular sensor data for robust and scalable security solutions
- Configured a network socket communication system to stream and process real-time vehicular data using hardware-in-the-loop (HIL) from VEINS to an embedded computer (Raspberry Pi), allowing simultaneous reading and anomaly detection to ensure smooth data transmission between connected automated vehicles and infrastructure

### Principal Financial Group | Des Moines, IA

Information Security Engineer Intern

May 2023 – August 2023

- Performed 50+ analytical anomaly reviews focused on insider risk management and established OKRs and SOPs for designing alerts, including designing better filters to reduce noise and improve relevance
- Developed a full-stack application using **ElasticSearch**, while enhancing log analysis and SIEM/SOAR exposure indicators for SOC design in establishing rules and policy use on data in information technology and SaaS application deployment
- Reduced noise in email data and identified anomalous email traffic patterns, utilizing **AWS services (S3, Lambda, CloudWatch, SNS Alerts)** and Microsoft Teams for escalation with insights to be investigated for business appropriateness

### Itron | West Union, SC

Manufacturing Test Engineer Co-op

August 2022 – May 2023

- Migrated 6 web-based lookup and control tools to a Windows (**C#**) desktop application with CRUD operations improving user satisfaction with a more modernized user interface and architecture
- Refined user experience by writing test procedures and work instructions of manufacturing software, resulting in increased OEE by reducing defects and user errors, leading to higher user engagement and productivity
- Redesigned database design and functionalities in **MySQL** to **MS SQL** reducing data retrieval time, decreasing database errors, and increasing software performance

### Clemson Energy, Visualization & Analytics Center (CEVAC) | Clemson, SC

Software Engineer Intern

May 2022 – August 2022

- Automated ingestion of files with 100M+ records into company systems, leveraging **Python** scripts for monitoring building conditions and tracking metrics like CO2, temperature, humidity, and facilities usage
- Deployed full web stack application using **ASP .NET, C#, HTML, CSS, JavaScript, and MS SQL** relational database for data manipulation and ETL procedures
- Exercised Agile methods to create and optimize product features for visualizing data for sensors around buildings

## SKILLS

- **Languages:** Java, Python, C++, JavaScript, React.js, C, CSS, ASP.NET, .NET CORE, C#, and SQL
- **Backend:** Linux, Windows, Heroku, AWS, PostgreSQL, MySQL, MS SQL, and Express/Node.js
- **Technologies:** Django, Trello, Postman, Git, PyTorch, Pandas, NumPy, SciPy, Scikit Learn, Elasticsearch, and Splunk
- Development Tools, Debugging, Collaborative Leadership, Support & Engineering Documentation, Interpersonal Communication, Application Testing, Continuous Process Improvement