

# Deekshitha Sriraman

[dsrirama@andrew.cmu.edu](mailto:dsrirama@andrew.cmu.edu) | +1 (412) 996-1722 | [deekshithasriraman.com](http://deekshithasriraman.com) | [linkedin.com/in/deekshitha-sriraman](https://linkedin.com/in/deekshitha-sriraman)

## EDUCATION

**Carnegie Mellon University**, Pittsburgh, Pennsylvania, USA August 2024 - Present  
Master of Information Systems Management Expected Graduation – Dec 2025  
**Courses:** Object Oriented Programming with Java, DB Management, Economic Analysis, Statistics, Data Focused Python

**SSN College of Engineering (Affiliated to Anna University)**, Chennai, India July 2018 - May 2022  
Bachelor's in Electrical and Electronics Engineering  
First Class with Distinction, 2nd Rank in EEE in 7th Semester (senior year)  
**Courses:** Python, Object Oriented Programming with C++ & Java, Web Technology, Artificial Neural Networks, Finance for Engineers

## SKILLS

**Programming & Web Development:** Java, Python, C++, HTML, CSS, JSP, JavaScript, XML, MATLAB  
**Frameworks & Databases:** Spring, Springboot, Mockito, Flask, JUnit, SQL, JDBC, MongoDB, OracleDB, MSSQL  
**Misc.:** Docker, Jenkins, Udeploy, Teamcity, OpenShift, Lightspeed, AutoSys, Apache Flink, Apache Kafka, Git

## WORK EXPERIENCE

**Citi, Trade & Treasury Solutions**, Chennai, India August 2023 – July 2024

### Technology Application Program Developer-1 (C10)

- Designed and constructed UI for support and operations team to identify transaction disruptions and decrease turnaround time by **85%** using Java, JSP, SQL, and Oracle DB
- Increased unit test coverage to **85%** and tested module functionalities. Improved code maintainability and reliability by fixing various security hotspots, blockers, bugs and code smells
- Remediated and reduced **100+** critical vulnerabilities by performing Software Composition Analysis
- Interacted with **10** clients and prepared Integration Analysis documents to provide working capital solutions

**Citi, Foreign Exchange Local Markets**, Chennai, India

July 2022 - July 2023

### Technology Analyst (C09)

- Created regression suite for data reconciliation decreasing manual effort by **80%** for production testing. Automatically triggers tool at scheduled CRON time and emails regression report
- Transformed monolithic legacy application into 10 microservices hosted in Openshift Container Platform and conducted end-to-end testing to ensure reliability of services
- Developed microservices for accessing and exposing databases with APIs to reduce redundant database connections by 85% and faster data access without any outages
- Awarded Citi Gratitude Copper for exceptional performance. Managed a team of 20 as Scrum Master

**Citi, Foreign Exchange Local Markets**, Chennai, India

May 2021 - July 2021

### Summer Technology Analyst Intern

- Developed job scheduler app as proof of concept to demonstrate Property Externalization using Spring Cloud Configuration Server in distributed systems with Git and JDBC backend
- Removed extra pipeline & avoided redeployment of property changes occurred in backend which improved performance by **60%**

## RESEARCH PUBLICATIONS

### Development of Monitoring System for Fault Classification in PV Plants using ML

Undergraduate Thesis, SSN College of Engineering

July 2021 - May 2022

- Designed ML-based monitoring system to dynamically detect & classify electrical faults in large-scale PV arrays and developed web app using Flask. Published at ICEES-2023 Conference ([IEEEExplore Link](#))
- Generated data using MATLAB Simulink and trained SVM, Decision-Tree, & Random Forest models. Developed a CNN model with **84%** accuracy & **0.048** testing loss for fault detection through thermal imagery

### Neonatal Seizure Detection using Machine Learning

July 2021 - Oct 2021

- Proposed ML-based architecture using ProtoNN that can be deployed in ultra-edge devices for Neonatal Seizure Detection by processing EEG signals
- Achieved best sensitivity of **87%** and optimized model size of ML classifier to just **4.84 KB** with minimum prediction time of **182.61** milliseconds. Published at AISP'22 Conference ([IEEEExplore Link](#))

## POSITION OF RESPONSIBILITIES

- Head of Cultural Fest:** Managed finances, website design & publicity; converted into a footfall of 30,000 students
- Head of Model United Nations:** Supervised Finance, Publicity, Logistics, Technical Aspects of 500+ delegates
- Chief Editor, EEE Newsletter:** Published 7 editions & recorded scholarly articles; Mentored a 20-member team