

DEEPTHIKA SIVARAM

Buffalo, NY | deepthika.sivaram@gmail.com | (716) 808-9417 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Software Developer | Fintech | AI/ML | Cloud & DevOps

Software Engineer with **4+ years** of experience in **fintech & cloud-based application development**. Skilled in **Java, Spring Boot, Python, and AI-driven automation**, with expertise in **scalable microservices, CI/CD pipelines, and predictive analytics**. Proven ability to **optimize software workflows, reduce downtime, and integrate AI/ML solutions** to enhance performance. Experienced in **DevOps, cloud computing (Azure, AWS, Kubernetes, Docker), and test automation**. Passionate about **building scalable, high-impact solutions** that drive business innovation.

EDUCATION

State University of New York at Buffalo

Buffalo, New York

Master of Science(M.S) in Computer Science Engineering(Artificial Intelligence/Machine Learning) (GPA:3.92) August 2024 - Present

Courses: Data Intensive Computing, Deep Learning, Statistical Data Mining, Computer Security and Operating Systems

College of Engineering Guindy, Anna University

Chennai, India

Bachelor of Engineering(B. E) in Computer Science Engineering (GPA : 9.26)

August 2017- May 2021

Courses: Big Data Analytics, Data Structure and Algorithms, Machine Learning, Cloud Computing and Database Management

SKILLS

Programming & Scripting: Java, Python, C++, C#, Kotlin, JavaScript, SQL, Bash, YAML, R

Frameworks & Libraries: Spring Boot, Selenium, Rest Assured, Quantum BDD, TensorFlow, Keras, Pytorch, Librosa, Scikit-learn

Cloud & DevOps: Docker, Kubernetes, Jenkins, Azure, AWS, Terraform, CI/CD Pipelines

Tools & Platforms: JIRA, GitHub Copilot, IntelliJ, VS Code, Splunk, Bitbucket, SOAP UI

Databases: MySQL, PostgreSQL, Oracle, MongoDB

WORK EXPERIENCE

Citigroup

Chennai, India

Software Development Engineer 2

July 2021 - July 2024

- Led and managed **2 high-impact software development projects**, integrating retail banking knowledge improving **customer satisfaction by 30%** through optimized software solutions.
- Acted as **India's Subject Matter Expert for Mutual Funds**, training **10+ cross-functional teams**, increasing **operational efficiency by 65%**.
- Engineered the **Quantum BDD test automation framework using Spring Boot, Selenium, and C#**, reducing **manual testing by 75%**, accelerating **release cycles by 40%**.
- Developed **automated test data solutions** by integrating internal **APIs and SQL databases**, improving **test accuracy by 40%**, reducing **data retrieval time by 50%**.
- Awarded **Citi's Gratitude Copper and Bronze Awards** for outstanding **contributions in software automation and development**.

Morgan Stanley

Bangalore, India

Software Development Intern

May 2020 - July 2020

- Developed a **Proof of Concept (POC)** for automating **CI/CD pipelines in microservices architecture**, reducing deployment downtime by **40%**.
- Researched and implemented **Blue-Green Deployment strategies**, optimizing release management for cloud-based applications.
- Automated **CI/CD pipeline using Jenkins, YAML, and Docker**, improving deployment efficiency by **55%**.

PROJECTS

- **Enhanced Pedestrian Detection (Computer Vision, AI/ML):** Developed a **CNN-based pedestrian detection model**, improving detection accuracy by **15%** in **low-visibility conditions**. Applications in **smart cities & autonomous vehicles**.
- **Steganography Messenger Mobile App (Cybersecurity, Android Development):** Built an **Android app with AES encryption** for secure **steganographic messaging**, achieving **99% accuracy**, serving **1000+ users**.
- **Temporal Trends in Hospital Admissions (Data Science, ML):** Used **Logistic Regression (96% accuracy)** to analyze **air pollution impact** on hospital admissions, enabling **early warning systems for healthcare planning**.
- **SQL Parser (Database Engineering, Automation):** Designed a **Lex-based SQL parser**, reducing **SQL error detection time by 50%**, enhancing **database management**.
- **Audio Classification using STFT & TensorFlow (AI, Audio Processing):** Developed an **AI-based sound classification model**, trained on **ESC-50 dataset**, achieving **73% accuracy**. Applications in **speech recognition & security systems**.

LEADERSHIP & VOLUNTEERING EXPERIENCE

- **Technical Team Member, AUSEC:** Developed the **Startup Pitchfest website**, boosting event participation by **50%**.
- **Event Coordinator, CSEA_CEG:** Conducted a **web development hackathon for 100+ students**, featuring **quiz rounds & hands-on coding**.
- **Event Coordinator, Student Association & Arts Society:** Led the **Picasso Art Event**, enhancing **creative engagement & event turnout**.
- **Member, National Sports Organization India:** Represented **university-level Kabaddi**, demonstrating **teamwork & leadership**.