PREETHIKA BASAVA

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EDUCATION

Master of Science in Computer Science, Stony Brook University — Aug 2023 - Dec 2024 (Expected)
Relevant Coursework: Database Systems, Computer Vision, Algorithms

Bachelor of Technology in Computer Science and Engineering, SASTRA University — 2017 - 2021
Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, DBMS, Operating Systems

SKILLS

Programming Languages	C++, Java, Python, HTML, CSS, JavaScript, MySQL, SQL Server, PostgreSQL
Technologies/ Frameworks	Azure, Bootstrap, React, Angular, Flask, Django, Spring Boot
Tools	Git, Jenkins, Docker, Splunk, Swagger, Postman

EXPERIENCE

Software Engineer — Aug 2021 - Aug 2023
Optum, United Health Group — *Hyderabad, India*

- Led the seamless migration of 15 critical on-premise business applications to Azure ensuring a remarkable 99.9% uptime achieving a 40% reduction in infrastructure costs.
- Spearheaded the modernization of legacy applications, integrating cutting-edge technology to enhance code maintainability, user experience and deliver a 25% improvement in application response times.
- Designed and implemented robust CI/CD pipelines utilizing Azure DevOps and Jenkins, resulting in a 30% reduction in deployment time for over 250 scripts.

Software Developer Intern — Feb 2021 - Aug 2021
ADP — *Chennai, India*

- Contributed to the enhancement of Human Capital Management (HCM) platform by creating 20+ RESTful microservices with Spring Boot and implementing MySQL database optimizations for enhanced query efficiency.
- Demonstrated a key role in crafting diverse features for the Payroll application using React enhancing user interface and collaborated effectively with cross-functional teams to integrate robust security features.
- Orchestrated the design of an end-to-end donation application, leveraging the capabilities of a low-code platform, resulting in a 50% reduction in development and maintenance costs.

Machine Learning Intern — Dec 2019 - Jan 2020
Expertshub — *Chennai, India*

- Led the creation of a Facial Emotion Recognition system utilizing Convolutional Neural Networks (CNN), delivering a remarkable 96% accuracy rate for emotion classification in real-time.
- Collaborated cross-functionally to enhance user interface and streamline processing, resulting in a 25% reduction in response time, enhancing the system's efficiency and user satisfaction.

PROJECTS

Server Software Scanning & Remediation Notifier. Developed a python based tool for identifying unsupported software on servers and automatically notify Service Level Owners of applications with remediation plan details.

Crime Pattern Classifier. Performed exploratory data analysis of crime patterns and engineered a classification model for crime descriptions using PySpark, NLP techniques and ML algorithms.

University Event Navigator. Built a comprehensive web-based platform to streamline the management of university-related events like event creation, promotion, registration, and analytics using Django and React.

LEADERSHIP AND EXTRA CURRICULAR

- Played a pivotal role as an Employee Engagement Initiative Moderator at Optum, facilitating activities to promote a positive workplace culture.
- Led cross-functional event planning in the DAKSH, School of Computing team at SASTRA, organizing international techno-management competitions and activities.