SAHANA NARASIPURA VASUDEVARAO

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EDUCATION

Syracuse University | Syracuse, NY *May 2025*
Master of Science in Computer Science (*GPA: 3.8/4.0*)

Visveswaraya Technological University | Bangalore Institute of Technology | Bangalore, India *Jul 2022*
B.E. Computer Science and Engineering (*GPA: 3.7/4.0*)

SKILLS/CERTIFICATIONS

Languages: Java, C++, C#, SQL, Python, JavaScript, HTML, Angular, Next.js, React
Frameworks: PyTorch, TensorFlow, Pandas, NumPy, Scikit-Learn, SpringBoot, NLTK, Linux
Cloud and Database: AWS EC2, S3, MySQL, Microsoft SQL Server, PostgreSQL
Tools: Eclipse IDE, Visual Studio Code, Postman, PlayFab, RESTful API, MatLab, Git, Cypress, JIRA
Certifications: Microsoft Certification in Python Programming

WORK EXPERIENCE

Syracuse University | Case Co-op (in Partnership with Toyz Electronics)
Software Engineer Intern, Syracuse, NY *May 2024 – Present*
- Refactored **10+ PlayFab RESTful APIs** to reduce data retrieval time by 45%, resulting in smoother course registration and updating of **8500+** users
- Designed and deployed Oli-Torus (course platform) using **React**, **Next.js**, **SpringBoot**, and **AWS EC2/S3**, linking it to Toyz-application and enabling scalable and secure student-tutor interactions
- Developed scalable **Azure automation scripts** in **C#** to streamline backend data updates, reducing manual input by 60% and optimizing task execution time from several hours to under 15 minutes
- Built interactive dashboards with **TypeScript**, **MaterialUI**, and **React**, enabling real-time data visualization and reducing UI latency by 30%
- Implemented **Cypress** and **React** Testing Library for integration testing, ensuring consistent quality across 20+ frontend and API features
- Contributed to the implementation of Agile methodology using **JIRA** for sprint management, utilizing **Git with CI/CD** pipelines for version control, resolving merge conflicts, and cherry-picking commits

iConsult Collaborative at Syracuse University
Web Developer, Syracuse, NY *Nov 2023 – March 2024*
- Developed 10+ responsive UI components using **React** and **SCSS**, improving mobile usability and enhancing cross-platform performance
- Reviewed PRs and optimized frontend logic for 4 junior developers, leading to faster QA approvals and smoother feature rollouts
- Collaborated with cross-functional teams and clients to design modular UI layouts, improving team efficiency in feature delivery by 17%
- Integrated **RESTful API**s and **microservices** to enhance dynamic data fetching, improving page load speeds and reducing bounce rates on key screens

Bosch Global Software Technologies
Associate Software Engineer, Bangalore, India *Jul 2022 – Jul 2023*
- Delivered 15+ high-impact features using **Angular**, **SpringBoot**, and **PostgreSQL**, increasing app adoption across enterprise clients
- Collaborated with QA and backend teams during **Agile** sprints to identify architecture gaps, leading to 2x faster deployment cycles
- Engineered responsive web flows with **HTML**, **SCSS**, and **TypeScript**, improving session duration by 35% on key web apps

PROJECTS

Named Entity Recognition System [Python] *Spring 2025*
- Developed advanced model using bi-directional LSTM using **Tenserflow**, **Numpy**, **NLTK, SpaCy** and **PyTorch** libraries, accurately recognizing named entities in texts based on context and meanings, achieved an accuracy of **96.89%** with this approach

Automatic Hate Speech Detection System [Python] *Fall 2024*
- Implemented a python flask web application with an underlying ensemble model with ML classifiers: Random forest and Support Vector classifiers and **TFIDF vectorization** on bilingual dataset and achieved accuracy of **90.1%** with the proposed method

Online Course Registration System [React, HTML5, CSS3, Javascript, MySQL] *Spring 2024*
- Created various designs and blue prints verifying requirements to be executed in the end system
- Built a web platform with **HTML**, **React**, **CSS**, **Javascript** and **MySQL** enabling tutors to create and oversee courses, while also facilitating student enrollment and management