SAHANA NARASIPURA VASUDEVARAO

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EDUCATION

Syracuse University | Syracuse, NY   *May 2025*
Master of Science in Computer Science

Visveswaraya Technological University | Bangalore Institute of Technology | Bangalore, India   *Jul 2022*
B.E. Computer Science and Engineering

SKILLS/CERTIFICATIONS

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

WORK EXPERIENCE

Toyz Electronics
Full Stack Developer, Syracuse, NY   *May 2024 – Present*
- Implemented new core features with **React** and **MaterialUI**, including a search bar, dashboard components, and profile cards.
- Deployed and configured **Oli-Torus** (Course registration application**)** on **AWS EC2 and S3**, integrating it with the Toyz database to enable scalable and secure data management
- Developed an AI agent to produce the socio economic story of a location using the OpenAI APIs
- Refactored and optimized over **10+ PlayFab API functions** to handle a PlayFab backend database with **7800+** users, significantly enhancing data retrieval speeds, registration workflows, and admin panel operations in a static web app.
- Maintained and optimized **Git workflows**, efficiently resolving merge conflicts, cherry-picking commits, and enforcing robust code quality standards to streamline CI/CD pipelines
- Implemented integration testing using **Cypress** and React Testing Library, ensuring functional consistency across UI components and API endpoints.

iConsult Collaborative at Syracuse University
Web Developer, Syracuse, NY   *Nov 2023 – March 2024*
- Developed and customized dynamic **WordPress** themes using **PHP**, **JavaScript**, and **SCSS**, ensuring performance optimization and modular component structure
- Implemented a mobile-first, fully responsive UI, leveraging **Bootstrap** and **JavaScript** to enhance cross-device compatibility and accessibility (WCAG-compliant)
- Integrated SEO best practices by optimizing HTML meta tags, creating semantic markup, and improving site structure
- Performed code reviews for over 4 undergraduate developers ensuring adherence to best practices and high code quality.

Bosch Global Software Technologies

Associate Software Engineer, Bangalore, India   *Jul 2022 – Jul 202*3
- Implemented rich user experiences by creating 15+ new features utilizing **React**, **HTML**, **Javascript**, **SCSS Java**, **Springboot** and **PostgresSQ**L
- Conducted thorough code reviews, identified and fixed critical bugs, and implemented best practices, resulting in 20% decrease in post release defects and improved overall code quality
- Led frontend development for diverse web applications, ensuring responsive and user-friendly interfaces
- Collaborated with cross-functional teams in each sprint to assess gaps between functional specifications and existing solutions, implementing strategic enhancements and proposing architecture improvements during team meetings to foster continuous improvement and an inclusive work environment.

PROJECTS

Named Entity Recognition System [Python]   *Spring 2025*
- Developed advanced model using bi-directional LSTM using Tenserflow, Numpy, 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 ensemble model with ML classifiers: Random forest and Support Vector classifiers and TFIDF vectorization on bilingual dataset
- Communicated deadlines and timely updates with team and achieved accuracy of 90.1% with the proposed method. This marked a significant 9.3% improvement compared to traditional single-classifier methods

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