HARSHA SIDDAGANGAIAH

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EDUCATION

M.S. Computer and Information Science — GPA: 4.0/4.0   **Sep 2021 - May 2023**
University of Oregon, Eugene, OR

B.E. Information Science — GPA: 3.51/4.0   **Aug 2014 - June 2018**
Visvesvaraya Technological University, BMS Institute of Technology & Management (BMSIT), Bangalore, India

Relevant Courses: Data Science, Artificial Intelligence, Machine Learning, Reinforcement Learning, Data Structures, Data Mining, Algorithms, Web Programming, Advanced Data structure, Databases, Software Architecture.

TECHNICAL SKILLS AND TOOLS

Programming Languages: Python, C, C++, Java, PHP, JavaScript.
Tools & Frameworks: Spyder, Eclipse, JDK, Jupyter, SAP, SQL, AWS, Linux, Java Servlets, JSP, HTML, REST API, Brackets, Sterling Integrator, QAD MFG/PRO, WordPress, Git.

WORK EXPERIENCE

Teaching Assistant & Lab Instructor at the University of Oregon (Eugene, USA)   **Sep 2021 - present**
- **Intermediate Algorithms (CIS 315)** - TA for Senior Year Intermediate Algorithms under "Professor Dr. Lei Jiao"
- **Database Processing (CIS 451)** - TA for Senior Year Database Processing under "Professor Dr. Christopher Wilson"
- **Responsibilities:** Conducting tutorials and labs, Office hours, Designing and marking quizzes, assignments, and projects.

Associate Engineer at Syntel Private LTD (Bangalore, India)   **Aug 2018 - Aug 2021**

Syntel aims to optimize Enterprise resource planning systems for many retail industries like **Volkswagen, Volvo, Skoda**.

- Developed and deployed IDoc Maps in IBM Sterling Integrator to load the file onto the SAP ERP system. It increased the time efficiency of receiving and processing the orders at the ERP system by 19%.
- Created different EDI standard maps (EDIFACT, X12, VDA) for the translation of documents sent by the client into a format understood by the MFG/PRO ERP system.
- Implemented different communication protocols such as VAN, OFTP2, and AS2 for file transfer between clients.
- **Achievement:** Diagnosed over 20 critical production issues and identified the root cause analysis.

Intern at DigiPix Technologies (Bangalore, India)   **Jan 2018 - Mar 2018**
- Engineered best of the kind plugins and themes for a WordPress platform to achieve the best user experience.

PROJECTS

Online Discussion Forum, Mechanism to Support Self Directed Learning

- Upgraded the learning procedure of students by designing a web interface that created an opportunity for the students to clarify doubts, share thoughts and access the study material shared by faculty. It chartered a learning platform to learn different programming languages through web implementation.
- **Achievement:** This model is used as an integrated portal by students in the Dept of Information Science at BMS Institute of Technology. Conducted assessments and devised new operational processes led to a 40% increase in student productivity.
- Language of Implementation: PHP, JavaScript, Servlets • Backend: MySQL • Software: Brackets, Eclipse.

Android App for Mess Management
- A customized mobile interface was developed to provide employees of corporate companies with the ability to view food menus. This comprehensive and informative Android app provides users with virtually all access and functionality. Effective management of all the guest lists and inventory through the app accelerated sales by 25%.
- Language of Implementation: Java, XML with PHP, JSON • Backend: MySQL • Software: Eclipse.

Fraud detection in Internet Banking
- Designed a model to detect fraud transactions with double security checks. Built the interface to use financial services via internet security and increased the convenience for the customer to access their account to make different transactions.
- Language of Implementation: Java • Backend: MySQL • Software: Eclipse.

CERTIFICATIONS
- Oracle Certified Associate, Java SE 7 Programmer.
- Oracle Database SQL Certified Associate.

PUBLICATION

Research paper on product "Google Glass"

- Published in International Journal of Advanced Research, Ideas and Innovations in Technology (IJARIIT).
- The paper was mainly focused on how the virtual reality concept helps in the physical nearness of the object.