

# SAI LOKESH SANISETTY

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## OBJECTIVE

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Ambitious and detail-oriented Software Developer with expertise in full stack development (React, HTML, CSS, JavaScript, Python, Java) and EDI integration. Backed by hands-on experience at ACL Digital and CIVS, Purdue, I leverage strong technical skills and collaborative experience to deliver scalable solutions that enhance user experiences and drive operational efficiency.

## EDUCATION

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- **Purdue University** Indiana  
*Masters in Computer Science; GPA: 3.67/4.00* *Expected Dec 2024*
- **Lovely Professional University** India  
*Bachelor of Information Technology; GPA: 7.29/10.00* *Aug 2016 - May 2020*

## SKILLS SUMMARY

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- **Programming and Scripting Languages:** Python, Java, JavaScript, C, C++, C#, SQL, R, MATLAB
- **Technologies:** Full Stack Development, ReactJS, Virtual Reality, Artificial Intelligence, API Development (REST, GraphQL), Google Cloud Platform (GCP), TensorFlow, Numpy, Pandas, Matplotlib, VLSI, PCB Designing
- **Database and Development Tools:** MySQL, Git, GitHub, Bitbucket, PyCharm, Visual Studio, Boomi Atmosphere, Atoll Software, MS Office
- **Additional Skills:** Data Structures, Object-Oriented Programming (OOP), Test-Driven Development (TDD), Responsive Web Design, UX/UI Design, Project Management, Communication, Design Analysis, Marketing & Branding

## EXPERIENCE

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- **Center for Innovation through Visualisation and Simulation** PNW, USA  
*Research Assistant* *Aug 2023 - September 2024*
  - **Integrated Virtual Blast Furnace (IVBF) Interface:** Developed a highly interactive and responsive dashboard using Dash frameworks, HTML, CSS, and JavaScript. Enabled real-time monitoring and adjustment of furnace operations, resulting in a 30% improvement in operational efficiency. Focused on dynamic control interfaces and simulation scenario management for optimized decision-making.
  - **Crane Training Simulator:** Developed a VR crane training simulator in Unity, creating a realistic industrial environment with interactive training modes for crane control and error detection. Designed UI, implemented bucket navigation tasks, and simulated operations like lifting and dumping scrap. Integrated Quest VR and a physical controller, enhancing realism and increasing trainee accuracy by 40% while reducing training errors by 20%.
- **ACL Digital** Bengaluru, India  
*Software Developer* *Dec 2020 - Jan 2023*
  - **EDI Integration Developer:** Spearheaded the development and scaling of EDI integration processes on the Boomi Atmosphere platform, achieving a 25% increase in processing speed and reduced error rates by 15%. Designed the Cracker Barrel (CRB) 820 process as a reusable module, supporting 66 workflows with optimized data flow and error handling. Enhanced compatibility and scalability across enterprise-level systems.
- **Telcocrats** Hyderabad, India  
*Internship* *June 2018 - July 2018*
  - **RF Survey and Planning for 4G Networks:** Conducted extensive RF planning and optimization using Atoll software, leading to a 20% increase in coverage and a significant reduction in interference. Evaluated key performance indicators such as throughput and signal strength to ensure high-quality network performance.

## ACADEMIC PROJECTS

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- **Banking Management System (Java):** Designed a modular and secure banking application, achieving 98% data accuracy and processing efficiency. Implemented user authentication, account management, and error handling, showcasing scalability and robustness through custom file handling techniques.
- **Google Maps Simulation (Java):** Built a map simulation integrating Dijkstra and BFS algorithms for optimized route planning, achieving a 15% improvement in route accuracy with real-time weather data. Added fuel consumption modeling for sustainability, increasing simulation reliability and user satisfaction.
- **Multilevel Correlation Analysis with MCTS Algorithm(Python):** Developed a machine learning-based correlation analysis tool with a 90% accuracy rate. Implemented MCTS algorithm in Python with R integration, enhancing cross-language functionality and reducing processing time by 20