

Sai Veerabhadra Medavarapu

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Education

State University of New York

New paltz, New York

Master of Science in Computer and Information Sciences

2022-2024

- **Concentrations:** Intelligence and Modeling/Simulations
- **Related coursework:** Object Oriented Programming, Web and Database Programming, Deep Learning, Image processing, Advanced Data Structures, Advanced Discrete Mathematics

Koneru Lakshmaiah University

Vijayawada, India

Bachelor of Technology in Computer Science Engineering

2018-2022

- **Concentrations:** Web and Database Programming
 - **Related Coursework:** Operating Systems, Enterprise Programming, Database Management System, Software Development Life Cycles, Computer Architecture, Computer Networks and Security
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Technical Skills

- **Languages:** Java, Python, C, JavaScript, HTML/CSS, Dart
 - **Frameworks:** React, ReactNative, Node.js, Apache Hadoop, Django, Bootstrap, Angular, Tailwind, Bulma, Express.js
 - **Tools:** Git (Source Control Management), Docker, AWS, VS Code, Tableau, Power BI, PyCharm, IntelliJ, Eclipse, Jira
 - **Libraries:** Pandas, NumPy, Matplotlib, Keras, Scikit-learn, TensorFlow, Seaborn
 - **Methodologies & Skills:** Software Development Life Cycle (SDLC), Object-Oriented Design, Design Patterns, REST APIs/Microservices, Distributed Systems, Data Structures & Algorithms, Virtualization, Software Networking, Content Publishing
 - **Soft Skills:** Reliability, Sound Judgement, Effective Communication, Commitment, Creativity
 - **Databases:** SQL (MySQL & PostgreSQL), MongoDB
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Professional Experience

Software Engineer - Mobile Platform Unifl | Remote, Freelance | Aug 2024 – Current

- Developed a social media platform using the MERN stack (MongoDB, Express.js, React, Node.js), employing object-oriented design principles in JavaScript and focusing on system architecture for scalability. Leveraged MongoDB for scalable data management and real-time updates, demonstrating proficiency in full-stack development and commitment to continuous improvement.
- Automated direct customer-to-customer transactions by integrating Stripe's APIs (APIs/Microservices) with the order management system, overseeing all SDLC phases from requirements definition to production rollout, and utilizing Jira for task management. This creative solution, with a focus on automation and security, resulted in a 20% reduction in processing time, showcasing sound judgement in technology selection and adherence to service level agreements.
- Collaborated across cross-functional teams to ensure high data quality (using SQL), system efficiency (through Python scripting and performance optimization techniques), and the successful execution of design reviews, leveraging Git (source control management) and VS Code for development. Communicated effectively with team members to ensure project alignment/success, while also considering local regulations where applicable.

Graduate Assistant SUNY New Paltz | New Paltz, NY | Jan 2024 – May 2024

- Launched a full-stack grading website with an AI chatbot, significantly improving efficiency in an academic content publishing context. Developed using HTML, CSS, JavaScript, Node.js, SQL, and the ChatBot API, deployed on AWS, showcasing full SDLC involvement. This reliable system, engineered with product engineering best practices, reduced grading time by 80% and improved student satisfaction by 50%.
- Enhanced website functionality by integrating React.js, Angular, and Tailwind CSS for a modern user interface, leveraging FastAPI to efficiently deliver data to the front-end and demonstrating proficiency in various frameworks, with a focus on security considerations.
- Managed project communications, tracked key metrics using tools like Tableau and Power BI, and created comprehensive documentation to ensure clarity and end-user usability, highlighting commitment to project success and effective communication, and demonstrating a focus on continuous improvement through data analysis.

Software Developer Intern Sanridge Pvt Ltd | Remote | Jul 2021 – Dec 2021

- Created wireframes, prototypes, and high-fidelity mockups for the "Excelli Super App" cab booking feature using Figma, contributing to app design and user flow, and considering system architecture implications.
 - Collaborated with clients and stakeholders to understand user needs, translated those needs into user stories, and delivered user-centered front-end solutions using HTML/CSS and JavaScript, demonstrating sound judgement in understanding and addressing business requirements, while adhering to local regulations where applicable.
 - Proactively managed project timelines, performed code reviews to ensure code quality, and updated program documentation, showcasing reliability and adherence to coding standards, and applying principles of automation where possible.
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Research Publications

Flower Identification and Classification using Deep Learning IEEE Xplore | Nov 2021 – Mar 2022

- Demonstrated deep learning effectiveness for image recognition, publishing research on flower species classification using Convolutional Neural Networks.
- Designed and implemented a deep learning model with convolutional layers and batch normalization, significantly increasing accuracy and precision.
- Enhanced model generalization by preprocessing the dataset, applying data augmentation, and leveraging transfer learning and fine-tuning.
- Publication link: <https://ieeexplore.ieee.org/document/9752231>