

# Venkata Sai Savant Mullapudi

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## SUMMARY

Software Engineer experienced in designing and developing scalable, high-performance front-end and back-end applications used by thousands of users. Skilled in modern frameworks such as React, Angular, and Node.js, with hands-on expertise in cloud platforms (AWS, Azure) and DevOps practices including CI/CD automation, Docker, and Kubernetes. Collaborative problem solver passionate about utilizing technology to deliver elegant, impactful solutions to complex challenges in agile work environments.

## SKILLS

**Programming:** Python, Java, C/C++, C#, Golang, SQL, HTML, CSS, JavaScript, TypeScript

**Frameworks, Libraries & Tools:** React, Angular, Vue.js, Node.js, Next.js, PHP, .NET, Spring Boot, jQuery, REST APIs, WebSockets, GraphQL, Qt Creator, WordPress, Figma

**Databases & Data Engineering:** PostgreSQL, MySQL, MongoDB, Redis, Pandas, PySpark, Power BI, Tableau

**Cloud & DevOps:** AWS, Azure, Salesforce, Linux, Docker, Git, CI/CD, Jenkins, Kubernetes, Terraform

## EXPERIENCE

- **Application Developer - University of Utah (School of Computing)** Jun 2024 - Present
  - Refactored an existing course management system, turning traditional modules into a modern, user-friendly web application using React, Material-UI, and Node.js, to enhance students' access to course content.
  - Designed the backend system to organize courses proficiently, add secure login for users, and handle growing amounts of data efficiently using REST APIs, JWT, and PostgreSQL, cutting down manual admin work by 40%.
  - Implemented an interactive academic portal using HTML, CSS, JavaScript, PHP, and MongoDB to showcase research team portfolios, publications, and achievements, resulting in a 30% increase in user engagement.
  - Coordinated duties as a **Graduate Teaching Assistant** for **Software Practices 2**, designing C++ assignments and managing agile projects dealing with Qt Creator, Box2D, and Git, following standard SDLC practices.
  - Led lab sessions, assisted in debugging and code reviews, and evaluated assignments with a focus on object-oriented design and version control best practices.
- **Software Engineer - Tata Consultancy Services (TCS)** Jul 2022 – Jul 2023
  - Developed order tracking and profile management features for TCS Experiential, an e-commerce portal in a 6-member team, using ReactJS, Node.js, and PostgreSQL and serving 15,000+ enterprise users across global regions.
  - Leveraged AWS EC2, S3, and Kinesis for scalable deployments, fast content delivery, and real-time data flow for the e-commerce portal; improved development efficiency with AWS CodeBuild for automated builds and testing.
  - Built a task tracking and notification system for internal project teams using Angular and .NET Core Web API with real-time SignalR updates, improving visibility and reducing client tickets by 35%.
  - Streamlined deployment workflows for the task tracking system by containerizing applications with Docker and automating unit/integration testing, contributing to faster release cycles.
- **Data Scientist - Pro Digital Worx** Jan 2022 - Jun 2022
  - Engineered and fine-tuned predictive models for customer segmentation and demand forecasting using supervised learning algorithms, enabling sales strategies across 5+ customer groups using data-driven insights.
  - Processed and cleaned large datasets using pandas and NumPy, scraping data and extracting relevant information to perform exploratory data analysis and identify key trends.
  - Developed Tableau and Power BI dashboards to display sales and customer data for real-time data exploration, cutting reporting time by 40% and enhancing stakeholder access.
  - Implemented Docker to streamline deployments, improve scalability, and optimize resources within a DevOps framework. Conducted hands-on Docker workshops to upskill the team and promote containerization best practices.

## EDUCATION

- **MS in Computer Science - University of Utah (3.83 / 4.0)** Aug 2023 – May 2025
- **BTech in Computer Science - MVGR College (JNTU affiliated) (8.84 / 10)** Jul 2018 – Jun 2022

## PROJECTS

- **Soccer Result Prediction:** Built a soccer match prediction pipeline by scraping Premier League data with BeautifulSoup, processing and merging datasets using PySpark, and storing in PostgreSQL. Trained Random Forest and CatBoost models with up to 78% accuracy, and visualized results using matplotlib.
- **BigCart E-Commerce Application:** Engineered and deployed a full-stack e-commerce dashboard using the MERN stack and Refine, integrating Material UI for responsive UI and Cloudinary for media management, featuring product and order management, customer analytics, and real-time sales visualizations.
- **Relax – Streaming Application:** Built a responsive video browsing app using ReactJS, Material UI, and React Router with real-time search and playback. Fetched dynamic content via YouTube Data API (RapidAPI), displaying videos, channels, and related results. Focused on clean UI/UX and seamless playback functionality across devices.