Venkata Sai Savant Mullapudi

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SUMMARY

Software Engineer experienced in designing and developing scalable front-end and back-end applications. Skilled in implementing efficient workflows and automation to improve software quality and delivery. A collaborative team player with a passion for exploring technologies and solving complex, real-world problems with elegant solutions.

EDUCATION

- **Master of Science in Computer Science** — Aug 2023 – May 2025
  University of Utah, Salt Lake City, Utah — *3.83/4.0*
- **Bachelor of Technology in Computer Science** — Jul 2018 – Jun 2022
  MVGR College of Engineering (JNTU affiliated), Vizianagaram, India — *8.84/10*

SKILLS

Programming Languages: Python, Java, C/C++, C#, Golang, HTML, CSS, JavaScript, TypeScript
Frameworks & UI: React, Angular, Node.js, jQuery, PHP, .NET, REST APIs, WordPress, Figma, Qt Creator
Cloud & DevOps: AWS, Azure, Salesforce, Git, DevOps Tools, Docker
Databases, Data Libraries & BI: PostgreSQL, MySQL, MongoDB, Pandas, PySpark, Power BI, Tableau

EXPERIENCE

- **Application Developer (Research Assistant)** — Jun 2024 - Present
  University of Utah (School of Computing) — *Salt Lake City, Utah*
  - 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.
  - Worked 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** — Jul 2022 – Jul 2023
  Tata Consultancy Services (TCS) — *Bengaluru, India*
  - 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 Science Intern** — Jan 2022 - Jun 2022
  Pro Digital Worx Inc — *Bengaluru, India*
  - 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.

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.
- **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.