Venkata Sai Savant Mullapudi

Salt Lake City, UT | +1 (385) 354-9746 | savant.mullapudi@gmail.com | [LinkedIn](#) | [Portfolio](#) | [Github](#)

SUMMARY

Software Engineer experienced in designing scalable, high-performance front-end and back-end applications using modern frameworks such as React, Next.js, and Angular, with hands-on expertise in cloud platforms (AWS, Azure) and DevOps practices. 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, Fast APIs, WebSockets, GraphQL, Qt Creator, WordPress, Figma, Wix
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

- **Full Stack Engineer - Trace AQ**   Sep 2025 - Present
  - Develop and maintain **Trace AQ | Aero**, a full-stack air quality forecasting web application, leveraging the AQA Engine and FastAPI to deliver interactive 4-day forecasts with dynamic graphs and alerts for poor air quality conditions.
  - Build and optimize the frontend and backend using Next.js, React, and Python, hosted on AWS Amplify and AWS ECS, integrating AWS Cognito, S3, Lambda, Route 53, and IAM for secure, scalable deployment and access management.
  - Lead the development of the mobile application **ADAPT** using React Native, Android Studio, and Xcode, enabling users to view forecast and receive personalized real-time air quality alerts, with a responsive design for both Android and iOS.
  - Collaborated on migrating backend infrastructure from CHPC to AWS, using Terraform to automate provisioning, optimize compute workloads, and streamline data processing pipelines for cloud infrastructure management.

- **Application Developer - University of Utah (School of Computing)**   Jun 2024 - Aug 2025
  - Refactored a legacy course management system into a scalable, modern web application using React and Material-UI for the frontend, and Node.js for the backend. Implemented secure user authentication with JWT, designed RESTful APIs, and optimized PostgreSQL database interactions to efficiently handle increasing data loads.
  - 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.
  - Served as a **Graduate Teaching Assistant** for **Software Practices 2**, designing C++ assignments, managing Agile projects using Qt Creator, Box2D, and Git, while leading labs focused on debugging, code reviews, and object-oriented design.

- **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.
  - 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 - Pro Digital Worx**   Jan 2022 - Jun 2022
  - Engineered and fine-tuned predictive models for customer segmentation and demand forecasting using supervised learning, while processing large datasets with pandas and NumPy, and performed exploratory data analysis to identify key trends.
  - Developed Tableau and Power BI dashboards for real-time sales and customer data visualization, reducing reporting time by 40%, and containerized deployments using Docker to enhance scalability within a DevOps framework.

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.
- **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.