

SULONI PRAVEEN

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

Master of Science in Computer Science | GPA: 3.81/4.0

Los Angeles, CA, US

JAN 2024 - DEC 2025

- **Coursework:** Analysis of Algorithms, Database Systems, Web Technologies, Information Retrieval & Web Search Engines, Machine Learning for Data Science, Deep Learning & Applications, Advanced Mobile Devices & Game Consoles

VIDYAVARDHAKA COLLEGE OF ENGINEERING

Bachelor of Engineering in Computer Science / GPA: 9.16/10.0

Mysuru, Karnataka, India

AUG 2019 - JUN 2023

EXPERIENCE

QUALTRICS

ML Software Engineering Intern

Provo, Utah, US

JUN 2025 - AUG 2025

- Architected and deployed **real-time ML inference pipeline** on **open text data solving post-survey feedback limitation** by replacing batch post-navigation processing with **streaming response** analysis for **10M+** monthly survey interactions on **Survey Taking Experience Team**
- Engineered **production LLM based BERT model** with **Docker** containerization and **AWS SageMaker** deployment, featuring **React-based real-time prompting**, attained **93.7%** model accuracy while **cutting down vague response** submissions by **40%**
- Built **scalable full-stack solution** with **AI Inline prompting**, automated **CI/CD pipelines** using GitHub, serving **50K+** concurrent users with improvement in survey completion rates by **35%**
- **Optimized** model serving infrastructure through load balancing, unit testing, auto-scaling configurations, and performance monitoring, collaborating with **backend** and **data science teams** to accomplish **15%** latency reduction

SARA (SPEECH ARTICULATION REINFORCEMENT APPLICATION)

Los Angeles, California, US

Software Engineering Intern

JUN 2024 - JUL 2024

- Developed **responsive home page** with card-based layout for challenge display with **hover states, visual progress bars, star rating system** indicating locked/unlocked/completed **challenge status** using **React Native**
- Built modular **React component library** including buttons, cards, and progress indicators, **decreasing code duplication** by **40%** through **reusable UI elements** with consistent styling
- Collaborated interactive **dashboard** displaying challenge achievements and session progress with kid-friendly visuals, **improving practice consistency by 25%** among young users
- Integrated **AWS Amplify services** for streamlined user login for **100+** users

COACHED

Bengaluru, Karnataka, India

Software Engineering Backend Intern

SEP 2022 - OCT 2022

- Architected real-time **order status tracking Dine flow** system using **MERN stack** enabling customers to monitor orders from **placement to delivery** and **reducing customer service inquiries** by **40%**
- Addressed inventory mismanagement and stockout issues by implementing **automated alert system** with **RESTful API endpoints** in **Node.js** using **Express** and **MongoDB** aggregation pipelines, **preventing revenue loss** from unavailable items and **reducing food waste** by **25%**
- Created comprehensive analytics solution with **React** empowering restaurant managers with **live updates** into sales patterns, popular menu items, and peak hours for **1000+ daily transactions** for data-driven decision making

SKILLS

- **Languages:** Python, C++, C, Java, C#, Go, HTML, CSS, XML, JSON, JavaScript, TypeScript, PHP, SQL, PostgreSQL, Swift
- **Software Frameworks:** Angular, React, React Native, Node, Next.js, Express, Unity, Flask, Figma, Bootstrap, REST API, Postman, Git
- **ML:** TensorFlow, PyTorch, Keras, Matplotlib, FastAPI, scikit-learn, Hugging Face, NumPy, Pandas, OpenCV, FastAPI, Streamlit
- **Cloud and Deployment:** AWS (S3, EC2, IAM, Sagemaker), GCP, Docker, MongoDB, Kubernetes, CI/CD, Model Deployment

PROJECTS

Time Freeze Runner Game | Unity, C#, Google Forms API, Python (pandas, matplotlib)

NOV 2025

- Collaborated a **2D platformer 3-Level** game with **Teleport power-up, enemy AI path generator, health bars**
- Deployed **analytics pipeline** as **Product Manager** capturing **700+** play testing **events** via Google Forms integration, analyzing completion times, **death position heat maps** to identify friction zones, diminishing level failure rates by **40%** from **alpha-gold** version

AI-Powered Scientific Document Analyzer Web Application | Next.js, TypeScript, Node.js, Ollama

NOV 2025

- Developed a web app letting users upload scientific PDFs triggering **TypeScript + Ollama LLM pipeline** to extract structured 7-field meta data **summarizing methodologies, solutions & results** for research documents with **92%** accuracy
- Accelerated research workflows by **cutting down manual research** analysis **time** by **70%**

Weather Data Full Stack/Mobile Application / Angular, Node, Flask, Swift, MongoDB, GCP

NOV 2024

- Engineered responsive **multi-platform** weather application consolidating real-time, location-based weather insights from Tomorrow.io, Google Maps, and Twitter APIs into **one platform**
- Orchestrated API integrations to **decrease data retrieval latency by 40%** compared to visiting multiple sources
- **Resolved** lack of historical weather context by building **interactive data visualizations** using **High charts** to display weather trends enabling users to analyze weather patterns over time