Siddhanth Thakuri

Sydney, Australia | +61 452025193 | thakurisiddhanth1@gmail.com | linkedin.com/in/siddhanththakuri | github.com/SIDDHANTH-THAKURI | leetcode.com/u/siddhanththakuri/

Professional Summary

Results-driven Master's in Computer Science candidate with 2+ years' experience in full-stack development, AI/ML, and database solutions. Proficient in Python, C# (C-sharp), React, and ML frameworks, with a track record of building scalable healthcare applications and delivering data-driven user experience improvements. Seeking impactful software engineering roles.

Technical Skills

- **Languages:** Python (Adv.), C# (Prof.), Java (Prof.), JavaScript/TypeScript (Adv.), C, PHP
- **Web Dev:** React, HTML5, CSS3, .NET MVC, Node.js, Express
- **Databases:** MongoDB, MySQL, SQL Server
- **AI/ML:** Deep Learning (PyTorch, TensorFlow), Transformers, NLP, Scikit-learn
- **Tools/Platforms:** Docker, FastAPI, Git, Postman, JWT Auth, Agile, Microservices, REST APIs

Professional Experience

Software Developer *Aug 2021 – Jun 2023*
Accenture, India

- Developed full-stack web applications (React, .NET MVC, Node.js), improving feature delivery speed by **30%**.
- Designed & implemented RESTful APIs (Node.js) integrating backend services, reducing data aggregation time by **25%**.
- Collaborated in agile teams to translate requirements into technical solutions, boosting user engagement by **20%**.
- Authored & executed unit/integration tests, achieving 90% code coverage & reducing critical bugs by **15%**.

Key Projects

MedMatch - Clinical Decision Support System (CDSS) *(Full-Stack and AI/ML)*

- Led end-to-end development of a clinical decision support platform for drug interaction analysis and patient health management, featuring distinct doctor/patient portals with RBAC using React, Node.js, FastAPI, and MongoDB.
- Integrated deep learning (BinaryDDI) and ChemBERTa models for DDI prediction and drug classification, providing real-time prescription validation and safety alerts crucial for decision support.
- Deployed an AI-powered assistant (LLMs) for patient queries and medical history summarization; built robust backend APIs for user authentication, prescription management, and AI-driven responses.

TravelMate - Microservices Web Application *(Full-Stack)*

- Architected and developed a travel booking platform (React, Node.js, Express, MySQL) with secure user authentication (JWT) and complex booking/payment workflows, designed for 1000+ users.

Analyzing Feature Distribution & Performance Gap (ImageNet vs. ImageNetV2) *(Machine Learning Research)*

- Investigated classification performance drops by comparing feature distributions of ImageNet and ImageNetV2 using pre-trained EVA-02 vision transformers with Python.
- Developed and optimized classifiers (e.g., SGD, Random Forest, Logistic Regression) on 1M+ extracted features (Python, Pandas, Scikit-learn), implementing incremental learning for large-scale data handling.
- Visualized high-dimensional feature shifts using t-SNE and UMAP, identifying dataset distribution drift as a key factor contributing to a model generalization gap of approx. **5%**.

Education

Master of Computer Science (Machine Learning & Big Data) *Completed 2025*
University of Wollongong, Australia

Bachelor of Aeronautical Engineering *Completed 2021*
MLR Institute of Technology, India

Certifications & Awards

- **Accenture Unsung Hero Award** (2022): For outstanding technical contributions.
- **Deloitte Tech Simulation** (2024): Tableau data dashboards and business dataset analysis.
- **Infosys InfyTQ Workshop** (2020): Python and SQL.