

Siddhant Lad

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🌐 siddhantlad.info

Education

University of California San Diego (UCSD), *Master of Science in Computer Science* San Diego, USA | Present
Academic Coursework: Principles of Software Engineering, Design & Analysis of Algorithm, Large Model Reasoning

GPA: 4/4

NMIMS MPSTME, *Bachelor of Technology in Computer Engineering* Mumbai, India | 2020-2024

Academic Coursework: Machine Learning Optimization Algorithms, Neural Networks and Deep Learning

GPA: 3.83/4

Projects

PaperWave

React Native | AWS | Python | BART-LARGE-CNN | AdMob

Implemented an app in React Native which used the BART-LARGE-CNN model to convert academic papers to mobile-friendly blog formats for enhanced readability and user-friendliness.

MediaMinds

Google Colab | Generative AI | Python | Stable Diffusion | Text-to-Video

Built a text-to-video generator using Stable Diffusion for image generation and Retrieval-Based Voice Conversion coupled with Google's text-to-speech for narration. The system demonstrated exceptional performance in creating story-based informational content. It presents diverse use cases, including an efficient tool for automated content creation and a powerful solution for producing engaging informational videos.

Safe Distancing

LSTM | DBSCAN | Android Studio | TensorFlow Lite | AWS

Developed an app for safety against COVID-19 using ML algorithms (DBSCAN, LSTM) to analyze real-time crowd density data using historical data and user collected data to help maintain social distancing.

Sensor'D

Android | Canvas | Arduino | Bluetooth Module | Firebase | C++ | Embedded Systems

Created a retro arcade game as a Native Android application, seamlessly integrated with an IoT-based controller designed and built by me. The game features high scores, dynamic effects, and leaderboards to enhance user engagement and interest.

Professional Experience

Ernst & Young, *Summer Intern for Technology Consulting*

Mumbai, India | March '22 - July '22

Bash | Python | Kali Linux | Java | SQL | JavaScript

Conducted Red Teaming, vulnerability assessments, and penetration testing for 12+ systems, identifying and mitigating critical security risks. Automated routine security tasks with custom scripts, reducing task completion times by 60% and improving overall operational efficiency.

RB Electronics Pvt Ltd., *Software Consultant*

Pune, India | Sept '22 - Feb '23

AWS | Java | C# | React Native | Node.js | Android Studio

Led the development of mobile apps and supporting infrastructure, serving 500+ active users. Deployed ASP.NET APIs on AWS EC2, achieving an 80% improvement in performance, significantly enhancing response times and scalability.

NTT Ltd., *Intern for Product Engineering and Innovation*

Pune, India | June '23 - Oct '23

Python | ManageEngine | FastAPI | Spring Boot

Automated reporting solution using Python, integrating it with the ManageEngine ITSM tool to streamline data processing and reduce manual effort by 70%. Enabled scheduled reports and real-time notifications, improving accuracy and reducing reporting time by 50%, enhancing IT service management efficiency.

Technical Skills

Programming Languages & Scripting: Python, Java, C++, Kotlin, C, C#, JavaScript, Bash

Development Frameworks & Tools: React, Flutter, React Native, Android Studio, Arduino, Firebase, Flask

Cloud, Databases & Operating Systems: AWS, GCP, Postgres, MySQL, SQLAlchemy, Windows, Linux

Machine Learning & Automation: TensorFlow, PyTorch, NLTK, Scikit-learn, Power Automate, Bash, Python

Creative & Design Tools: Blender, Unity, Photoshop, Figma

Organizations

Google Developer Student Club MPSTME, *Head of Android Department*

NMIMS Technical Fest 12.0, *Technical Lead*