

Sanjit Kumar

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👤 PROFILE

Computer Science grad student from UIUC with a passion for software development. Has a tendency to convert academic interests into practical projects. Possesses wide interests in CS and is keen to learn to work in a professional environment.

🎓 EDUCATION

Master of Computer Science (MCS),
University of Illinois at Urbana-Champaign
2022 – present | Champaign, USA
3.78/4 GPA

B.Tech Computer Science and Engineering,
Vellore Institute of Technology, Vellore
2018 – 2022 | Vellore, India
9.23/10 CGPA

🧠 SKILLS

Problem Solving (Java, Python, C, C++)

Web Development (ReactJS, NodeJS, PHP, WordPress, HTML/CSS, SQL)

Git and Version Control

Database Management (MySQL, MongoDB, Elastic Search)

Machine Learning (TensorFlow, Python dependencies)

Linux Kernel Development

🏠 ORGANIZATIONS

'THE' Plus Club, Media and Tech Head 📄

Feb 2020 – Jan 2021

Tech Lead. Managed, collaborated and worked with a team of 6 to move club's newsletter segment and workflow online. Was responsible for inter-club collaborations.

🏆 AWARDS

Best Ethereum Project & Best Dyte Powered Project,
DevSpace, Computer Society of India, VIT
21 Mar 2021

Fundraising Platform to advocate for wildlife preservation
- 1st place Ethereum Track.

📄 PUBLICATIONS

Internet of Things Security: Attacks, Solutions, Strengths and Limitations, *International Conference on Artificial Intelligence and Machine Vision, IEEE* 📄
26 Sep 2021
Reviewed and performed a comparative analysis on the latest research and development of frameworks in the field of IoT security.

💼 PROFESSIONAL EXPERIENCE

Software Development Intern, Zigma Software 📄

Sep 2021 – Oct 2021 | Erode, India

End to end truck weigh bridge software solution for trucks and heavy motor vehicles.

Full Stack Intern, WebKnot Technologies Pvt. Ltd. 📄

Nov 2020 – Dec 2020 | Bangalore, India

Custom Tensorflow model plugins with Shinobi CCTV and Full Stack Development.

📁 PROJECTS

Distributed ML Inference System

- A ML inference system build on top of 10 VMs from scratch - includes a distributed group membership protocol, a simple DFS and a work scheduling algorithm to optimize query rate.

MapReduce Simulation 📄

- A MapReduce simulation on a single machine using multiple docker processes to emulate a distributed async environment.

WildSprint 📄

- A fundraising platform that allows for donations via ether powered by Ethereum smart contracts.
- Dyte SDK used to live stream animals in their habitats to raise awareness.

Yarn Inventory Manager 📄

- MERN Stack web application that works as a website/catalogue for a yarn trading entity in Erode, TN, India to receive business inquiries for products. Data collected is used to create visualizations for business intelligence.

The Weekly Edge 📄

- A full scale web application using Node.js and React for a weekly online newsletter of 'THEP Club, VIT'.
- Complete workflow from writing the article to reviewing and publishing it on the the website. Club members exclusive.

Credit Card Fraud Detection with CLONALG 📄

- Credit Card Fraud Transactions Classifier using a hybrid AI-inspired AIS algorithm (CLONALG) that uses adaptive vectors.

Modified Banker's Algorithm 📄

- Simulating Banker's Algorithm with a twist of also handling incoming OS interrupts via a multi-threaded model implemented with POSIX.