

Sanjit Kumar

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EDUCATION

- Master of Computer Science**, *University of Illinois at Urbana-Champaign* 🌐 Aug 2022 – May 2024
3.89/4.00 GPA
Relevant Coursework: Distributed Systems, Interactive Computer Graphics, Operating System Design, Data Mining.
- B.Tech Computer Science and Engineering**, *Vellore Institute of Technology, Vellore* Jul 2018 – May 2022
3.87/4.00 GPA
Relevant Coursework: Artificial Intelligence, Object Oriented Programming, Parallel and Distributed Computing.

SKILLS

Problem Solving (Java, Python, C, C++) | **Web Development** (ReactJS, NodeJS, PHP, WordPress, HTML/CSS)
Database Management (SQL, MongoDB, Elastic Search) | **Machine Learning** (TensorFlow, PyTorch)
Systems Programming (Linux Kernel, Hadoop, Sockets, Distributed Systems)

PROFESSIONAL EXPERIENCE

- Software Engineer Intern**, *Aviz Networks Inc.* 🌐 May 2023 – Aug 2023
San Jose, USA
- Works on a Network Analyzer solution in C++ that captures network packets from switches, routers and linux servers and streams metadata information elsewhere to monitor and analyze network health.
 - Leverages Elastic and Kibana to evaluate metrics of interest.
- Software Developer Intern**, *Zigma Software* Sep 2021 – Nov 2021
Erode, India
- Designed and developed an end to end weigh bridge software solution for trucks and heavy motor vehicles. Coordinated and documented client reviews to track project trajectory.
 - Implemented tests for functionality and optimized database queries to improve performance.
- Full Stack Developer Intern**, *WebKnot Technologies Pvt. Ltd.* 🌐 Nov 2020 – Dec 2020
Bangalore, India
- Engineered Custom Tensorflow object detection model plugins with an open-source CCTV framework called Shinobi.
 - Developed web pages with ReactJS and REST API with node.js and Express.js for two different MERN stack applications for local businesses in Bangalore.

PUBLICATIONS AND PRIZES

- Best Ethereum Project & Best Dyte Powered Project**, 21 Mar 2021
DevSpace Hackathon, Computer Society of India, VIT 🌐
- Developed a fundraising Platform (called WildSprint) using Solidity, ReactJS, Dyte and Node.js to advocate for wildlife preservation using crypto crowdfunding.
- Internet of Things Security: Attacks, Solutions, Strengths and Limitations**, 26 Sep 2021
International Conference on Artificial Intelligence and Machine Vision, IEEE 🌐
- Presented a comparative analysis with benchmarks of latest security frameworks in recent IoT literature while advised by Dr. Anil Kumar Kakelli.

ORGANIZATIONS

- THEP Journalism Club**, *Tech and Media Head* 🌐 Feb 2020 – Jan 2021
- Worked with a team of 6 to move the literature club's newsletter segment (The Weekly Edge) online.
 - Developed and launched a full scale MERN stack web app that facilitated writing, editing and publishing articles by club members. Tracked and increased reader traffic by 40%.

PROJECTS

- Distributed ML Job Scheduler System** 🌐
- Designed an ML inference job scheduler system build on top of 10 Linux VMs from scratch using Java and Python.
 - Includes distributed data logging service, distributed group membership protocol and failure detector, a distributed files system and a real-time work scheduling algorithm to optimize query rate for ResNet and ImageNet ML inference tasks that sit on top of each other.
- 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.
 - Also designed and implemented an alternative JavaFX frontend.
- Credit Card Fraud Detection with CLONALG** 🌐
- Credit Card Fraud Transactions Classifier using a hybrid artificial immune system algorithm that mimics human secondary immune response (called CLONALG) that uses adaptive data vectors build from ground-up.