

# Sanjit Kumar

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## EDUCATION

- Master of Computer Science (MCS)**, *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 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 truck bridge software solution for trucks and heavy motor vehicles. Coordinated and documented client reviews to track project trajectory.  
• Implemented unit tests to test functionality and optimized existing programs/ 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 open-source Shinobi CCTV framework.  
• Developed ReactJS web pages and node.js REST API scripts 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  
• Led 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.  
**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.  
**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.