Jay Sinha

📞 (+91) 8090 167 640   in /jay-sinha
✉ jay.x.sinha@gmail.com   ○ /razor8
🌐 jaysinha.me

🎓 Education

MS Ramaiah Institute of Technology   2015 – 2019
B.E. Information Science and Engineering, 9.26 CGPA   *Bengaluru, India*

🌐 Publications

Efficient Deep CNN-BiLSTM Model for Network Intrusion Detection   June 2020
3rd International Conference on Artificial Intelligence and Pattern Recognition   *Xiamen, China*

> The model proposes an effective approach towards Network Intrusion Detection in cloud systems with active monitoring using Neural Networks. The proposed model combines spatial and temporal feature sets from CNN and BiLSTM on time range datasets to accurately predict network attacks and the category of attack to which they belong to.

💼 Experience

JPMorgan Chase & Co.   July 2019 – Present
Software Engineer II   *Bengaluru, India*

> Part of the Corporate Technology Line of Business. Deals with the Internal JPMC Apps necessary for daily operations and workflow optimizations. Good hands-on experience in SDLC and Agile methodologies distributed for scheduled mission-critical releases and integrated Change Management and CI/CD Automation for the applications I worked on with ServiceNow, AWS, etc.

> Worked on application serving Transaction Processing through Quorum (JP Morgan's Blockchain Technology based on Ethereum) and their reporting for Compliance and Legal purposes.

> Working on applications that serve Region Wise different functional and validation sets for Compliance and Operations relating to Timekeeping and Internal Communication Email Engines that reduces Service Delivery Operations Time in half.

> Collaborated with different teams around the globe to onboard Oracle HCM Cloud to JPMC which is now serving more than 250,000 employees and contractors globally.

Helix Accelerator   February 2019 – April 2019
Trainee   *Hong Kong SAR*

> Was a part of the Helix Accelerator training program to incubate my project on Hedera Hashgraph which is the only Accelerator on Hedera Hashgraph. Developed HopOn application: a peer-to-peer WiFi sharing dapp monetized by microtransactions of cryptocurrencies. The application uses a dedicated mechanism to stop connecting to other persons' Hopon Hotspot and verify the private keys of users to facilitate transactions through crypto.

Inversion Consultancy LLP   February 2018 – February 2019
Head of IT   *Bengaluru, India*

> Acted as Regional Manager's eyes, ears, and right hand, overseeing and reporting on employee conduct

> Developing web-based and app-based software(s) for the company's HR and its clients'.

> Developed an Online Learning Management System and Registration web software for Verzeo.

> Learning about the startup ecosystem in India and about optimizing web-based software(s) for better performance delivery.

> Single-handedly designed and developed Foxmula - An online self-paced learning website for college students and working professionals in India. The web app is made using microservices: consists of an admin (track and visualize the student's actions segregate data in a manner to boost sales and maintain onboarded students), operations student side views and also offers REST API for vendor applications for better tracking of a student and their registration with Foxmula's partners. The website has more than 3000 daily active users and more than 100,000+ signed up users as of now.

Ramaiah Public Policy Center
Software Engineering Intern

May 2018 – July 2018
Bengaluru, India

> Extended the development of Ramaiah Farming Portal (initially started as part of 6th-semester coursework) which is a Data storage software for storing information of farmers covering a complex collection of details for Ramaiah Public Policy Center as a mini-project. (Fully functional & in-production - later taken into the internal organization server in order to limit access to data that contains personally identifiable information)

SecureIT Lab
Software Engineering Intern

September 2017 – February 2018
Bengaluru, India

> Lead the development team of project Ophish.

> Developed features and did extensive debugging of their platform on PHP and Python which resulted in up to 50% better performance in email scheduling and parallel processing of response events.

🏆 Achievements

Hedera'18 Hackathon
First Prize

October 2018
10,000 USD

> Won Hedera Hashgraph Hackathon (Indian Regional Winners) by creating an internet-sharing platform HopOn using Hedera's Micro-transaction technology.

Game Oasis Decentralized Hackathon
First Prize

October 2019
200 USD

> Won Game Oasis Decentralized Hackathon with First Prize - Used Marlin Protocol's SDK to make glitch-free streaming of a 1-D game

Mylan Hackathon
Second Prize

October 2018
350 USD

> . Developed an offline-capable adverse drug reaction reporting system to ensure a better log of side-effects of medicines in-market

PAYSE Ethical Hacking Hackathon
Second Prize

April 2017
150 USD

> Finished with Second Position by finding a bug in the PaySE offline payment platform with a Man-in-the-Middle attack.

⚗ Projects

AlterOpt
First Prize

May 2019
MSRIT Pradarshana 2019

> Free omnichannel software for HRMS, Project Management System with built-in external integrations for famous apps used worldwide to manage clients, projects, and employees hassle-free. Won First Place in Open Project Exhibition hosted by MSRIT for Final Year Students' Project

HRI RTA App   July 2018 - October 2018
Ramaiah Hospital

> Developed HRI RTA App (in-use on Hosptial's Internal Devices) - Website App for immediate reporting of Accident Patients being admitted into Ramaiah Memorial Group of Hospitals that is currently in production.

🌐 Volunteer Work

Sahapedia 2.0   November 2019 - August 2020
Sahapedia   *JPMorgan's Force for Good*

· Volunteered as part of JPMC's Force for Good, a Corporate Social Responsibility program at the firm. With a team of 6 people, I worked to revamp Sahapedia NGO's legacy web platform. Worked on improving their media library and make it into a media browser with a custom-developed npm module on ReactJS.

⚙ Certifications

Java Enterprise Apps with DevOps   August 2016 - January 2017
NIIT Education   *Bengaluru, India*
Introduction to Computer Science and Programming using   August 2016 - October 2016
Python
edX
The Web Developer Bootcamp   March 2017 - April 2017
Udemy
Machine Learning   October 2017 - November 2017
Coursera
Neural Networks and Deep Learning   November 2017 - December 2017
Coursera
Improving Deep Neural Networks   January 2021 - February 2021
Coursera
Structuring Machine Learning Projects   February 2021 - March 2021
Coursera
Natural Language Processing with Classification & Vector Spaces   March 2021 - April 2021
Coursera