

# SURYAANSH RATHINAM

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## EDUCATION

### National University of Singapore

Jan 2024 - Dec 2025

Masters of Computing (AI Specialization)

- Neural Networks and Deep Learning, AI Planning and Decision Making, Distributed Systems, Knowledge Discovery and Data Mining

### Manipal Institute of Technology

Sep 2020 - Jul 2024

BTech, Computer Science Engineering

GPA: 9.47

## SKILLS

- Programming Languages: Python, C, C++, Java, Javascript, Typescript, NextJS, NodeJS
- Database Systems: MongoDB, MySQL, Redis, Postgres
- Other Technologies: AWS, Firebase, Git, Docker, Selenium, Django, NestJS, FastAPI

## WORK EXPERIENCE

### Moneyflo - Full Stack Developer

Mar 2023 - Jun 2024

- Implemented an AI assistant leveraging OpenAI's GPT-4o model, seamlessly integrated into a dashboard, enabling clients to effortlessly extract deeper insights from data and make informed decisions increasing time spent using product by 25%.
- Utilized NextJS, Firebase on client side and utilized NestJS, FastAPI to make endpoints for application and AWS S3, Lambda and EC2 were leveraged, to store and process large quantities of client data.

### Indian Institute of Technology, Kharagpur - Research Intern

Jun 2023 - Aug 2023

Indian Institute of Technology, Kharagpur

- Fine-tuned a pre-trained U-Net model for image segmentation, further trained on 300 ultrasound images, after cleaning and pre-processing data, obtaining an accuracy of 99.2%.

### Ridecell - Software Engineering Intern

May 2022 - Aug 2022

- Employed as a part of the QA and automation team, working with 3 team members on testing and debugging of API endpoints and Mobile App, leveraging Testrail for managing test cases.
- Ensured smooth functioning of the API endpoints and Mobile app primarily using Python, Selenium, Pytest, and Appium.

## PROJECTS

### Manipal Institute of Technology

Aug 2024 - Oct 2024

- Built a web-scraping and automation tool employing Selenium and Python to automate process of data collection and formatting from university portal, earlier done manually by professors, now done using software by 200+ faculty across university.

### Revels

Jan 2023 - Dec 2023

- Spearheaded a 10-member team in developing a MERN stack web app for institute's cultural fest, serving 8000+ users with registration, participation, scoring, judging, and ticketing features.

### Psychup

Feb 2023

- Led a team of four in building a MERN Stack Platform to boost mental health awareness, focusing on efficient REST API endpoints, intuitive UI, and incorporating a comprehensive Myers Briggs Type Indicator-based Personality Assessment Test.

## LEADERSHIP

- Led university's Open-Source Society as Technical Head, orchestrating technical initiatives, organizing events to promote awareness regarding open-source, and mentoring junior members to enhance skill sets.

## PUBLICATIONS

- Exploring IoT-Blockchain Integration in Agriculture: An Experimental Study - Published in IEEE Access
- Survey of the use of AI models and techniques in the analysis and prediction of neuro-degenerative diseases- Presented at AICECS 2023 and Published in IOP: Journal of Physics (Volume 2751)
- Analysis and Comparison of Different Frontend Frameworks- Presented at ATIS 2022 and Published in Springer's CCIS Series (Volume 1804)