

SURYAKIRAN SURESHKUMAR

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EDUCATION

- **New York University** New York, NY
M.S - Computer Science; GPA: 3.85/4.00 *September 2022 - May 2024*
- **Anna University** Chennai, India
B.E - Computer Science and Engineering; GPA: 3.64/4.00 *August 2017 - April 2021*

SKILLS SUMMARY

- **Programming Languages:** Python, Java, C++, C
- **Full-Stack Development:** HTML, CSS, JavaScript, Django, FastAPI, Node.js, React.js, GraphQL
- **Cloud, Version Control & CI/CD:** AWS, Azure, Oracle, Terraform, Git, GitHub, GitLab, Azure DevOps
- **Big Data Technologies:** Hadoop, HDFS, YARN, MapReduce, Hive
- **Databases:** MySQL, SQL Server, PostgreSQL, MongoDB, Oracle, Redshift, Snowflake, BigQuery
- **Tools & Platforms:** Postman, Power Apps, DataBricks, Docker, Flutter, JIRA

EXPERIENCE

- Software Engineer Intern, Data | **Promantus Inc.** June 2023 - August 2023
 - **Automated Cash Application:** Defined parsers in Java for the cash application, enabling seamless integration with multiple bank statement formats resulting in a 50% reduction in manual effort and a 95% increase in data accuracy.
 - **P&ID detection:** Pioneered the implementation and fine-tuning of the few-shots object detection model, resulting in a 10% improvement in detection & classification accuracy compared to the previously implemented solution.
- Software Engineer, Machine Learning Engineering | **Tiger Analytics** February 2021 - July 2022
 - **No-Code data science platform:** As the lead engineer, I led a team to design and deploy over 30 predefined functions for data science tasks using Azure Databricks and PySpark. I developed a scalable backend with FastAPI, enhancing execution capabilities. I also spearheaded the creation of a CI/CD pipeline, improving deployment speeds by 20%. Collaboration and communication with cross-functional teams ensured the successful rollout of the platform.
 - **Automated Shelf Analysis:** Led the creation of a mobile app for inventory video analysis, slashing manual labor by 60%, and developed an AWS ETL pipeline to analyze financial trends, driving data-informed decisions.
- Research Assistant | **Anna University** July 2019 - January 2021
 - **Deep Learning Framework for Component Identification** [\[paper\]](#): Contributed to a groundbreaking research project which involved designing a system to monitor a manufacturing assembly line, accurately detecting, classifying, and counting components in real-time imagery, significantly improving operational efficiency.
 - **Scene Understanding in Night-Time Using SSAN Dataset** [\[paper\]](#): Co-authored research (NCVPRIPG 2019, Springer 2020) on an innovative CCTV-based night surveillance system, improving object detection under low-light conditions using YOLOv3 model.
- Academic Intern | **National University of Singapore** June 2019
 - Gained knowledge and experience in Big Data Analytics using Artificial Neural Networks.
 - Pioneered the development of an award-winning Django-based application that leverages neural networks to detect phishing sites, securing the top spot among 40 innovative projects.
- Summer Intern | **Hewlett Packard Enterprise** June 2019
 - Acquired deeper understanding on Big data and Hadoop System Administration.
 - Implemented AES encryption on a file containing passwords by leveraging a MapReduce job within the Hadoop ecosystem.

PROJECTS

- **ChatLoom:** Implemented a specialized chatbot using OpenAI's advanced large language model for detailed cosmology and astrophysics responses. Integrated with LangChain, it's accessible via a web application developed using Chainlit, enriching user interactions with accurate cosmic knowledge.
- **Phishing Site Detection:** Developed a web application, complemented by a Chrome extension, that utilizes a neural network to detect phishing sites after rigorous data cleaning, achieving an accuracy of 98.73%. The system notifies users about the safety of sites and forwards analysis to the cyber department.
- **Covid Fight:** Designed and developed a mobile application for both iOS and Android using Flutter aiding users during the coronavirus pandemic. Features include live count updates of cases, a crisis communication chatbot to resolve pandemic-related queries, a self-diagnosis tool, hand-washing reminders, and immediate access to distress numbers.

EXTRA CURRICULARS

- **Teaching Assistant (NYU):** Led lectures for Linear Algebra, Computer Vision, Vision meets Machine Learning and Probability, Statistics & Decision Making courses.