

# Viknesh Rajaramon

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## EDUCATION

**M.S. Computer Science** Aug 2023 - May 2025 (Expected)  
**Arizona State University, Tempe, AZ, USA** 3.56 GPA (scale of 4.00)

**Courses:** Advanced Operating Systems, Software Security, Software Design

**B.Tech. Computer Science and Engineering** Jul 2018 - May 2022  
**IIITDM Kancheepuram, Chennai, Tamil Nadu, India** 8.88 GPA (scale of 10.00)

**Courses:** Design and Analysis of Algorithms, Advanced Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Probability Theory, Analytics and Systems of Big Data, Pattern Recognition, Operating Systems, Database Systems, Computer Architecture, Embedded Systems

## TECHNICAL SKILLS

**Programming Tools** : Python, Go, C++, C  
**Tools and Databases** : SingleStore, PostgreSQL, MySQL, GitHub, Salesforce Object Query Language (SOQL)  
**Data Visualization Tools** : Amazon Quicksight  
**Frameworks/Libraries** : NumPy, Pandas, Matplotlib, Keras  
**Operating Systems** : Linux Ubuntu, Windows

## PROFESSIONAL EXPERIENCE

**Factors.AI, Bangalore, Karnataka, India: Software Engineer** May 2022 - Jul 2023

Responsible for developing solutions to optimize existing pipelines and develop new features for enhanced real-time marketing analytics. Role included assessments, solutions, testing, and implementation.

- Built the Salesforce Tasks and Events pipeline for funnel analytics and reporting in **Go** utilizing Salesforce APIs and **SOQL** queries
- Built modules in **Python** to overcome data pull limits of Hubspot APIs by deploying the newer API versions and prevent data lag to clients
- Optimized algorithms for real time marketing analytics by removing redundant and unwanted database query calls, reduced the response time for real time marketing analytics by 25%
- Responsible for identifying and resolving issues by viewing logs in Google Cloud Cron Jobs for Salesforce and Hubspot data pull and enrichment pipelines

**IViewSense Private Limited, Chennai, Tamilnadu, India: Data Analyst Intern** May 2021 - Oct 2021

- Created a Business Intelligence report for a shipping logistics company in **Amazon QuickSight**, cut down costs by 20% and enhanced efficiency of document processing by 30%
- Integrated data from various sources onto a single BI report, provided insights into various KPIs thereby improving productivity by 45%
- Identified and implemented updated client requirements during client meetings to improve client service efficiency by 35%

## PROJECTS

**Stock Price Forecasting, Personal Project** Nov 2021 - Dec 2021

- Developed a program to retrieve historical data of stocks from Yahoo Finance and forecast the stock price
- Utilized the pandas and numpy libraries in **Python** to preprocess the data
- Utilized the keras libraries in **Python** to train and test the model
- Analyzed various models with different values for number of layers and number of cells in each layer
- Deployed Early Stopping while training the model to prevent overfitting and reduced the model training time by 60%

**Traffic Sign Classification, Class Project****Apr 2021 – May 2021**

- Modelled a CNN to train and classify the traffic sign image into different categories, achieving an accuracy score of 94.37%
- Developed the GUI using **Tkinter** to upload a traffic sign image and get the classification

**File Transfer System, Class Project****Oct 2020 - Nov 2020**

- Developed a simple file transfer system in **Python** that allows users to transfer files between two systems connected through the same network using IP address
- Added support for multi-threading to allow the transfer of the same file to at-most 4 users simultaneously
- Developed the user interface using PyQt5 in **Python** for uploading files and tracking real-time transfer progress bar

**Attendance Management System, Class Project****May 2020 - Aug 2020**

- Designed a portal for faculty and students with designated accounts for each person where the faculty can enter the attendance of each student for every course they teach and check the attendance of every student
- Students can view their attendance for every course they've taken and can also communicate with other students in a particular course in common chatrooms
- Utilized **ReactJS** for building the front-end along with **redux** for state management and **Axios** to communicate with **REST API**
- Used **NodeJS** to create the back-end server and **expressJS** to build the **REST API**
- Also incorporated **BCryptJS** for securing passwords

**EXTRACURRICULAR EXPERIENCE****CS Club, IIITDM Kancheepuram: Lead Core, Competitive Programming****Sep 2020 - May 2021**

- Steered and advised team members to prepare questions of different difficulty levels on various competitive programming topics
- Organized various college wide coding contests on CodeChef platform; increased the number of participants by 15%
- Prepared content and organized online sessions on important competitive programming topics such as **C++ STL** vectors, stack, queue

**Vidhai, IIITDM Kancheepuram: Curriculum and Teaching Volunteer****Jan 2020 - Apr 2021**

- Created exam materials on mental ability and mathematics for students in a government school in India to excel in national level scholarship exam conducted across India such as NTSE and NMMS
- Teaching mathematics and science subjects for class 10 students in a government school in India during the weekends