

# ARJUN RAJA YOGIDAS

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Graduate Student with over 3 years of professional software engineering experience. Language agnostic developer with sound knowledge of agile software life cycle and test driven development. Adaptable and a team player, very good at communication and leading by example.

## PROFESSIONAL EXPERIENCE

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Cybrilla Technologies, Bangalore, India

July 2019 - December 2021

### Software Engineer

- Owned and developed various critical components of the user onboarding and tracking module for Upstox, a leading online stock broker company in India
- Optimized SQL queries in the stock brokerage calculation script that reduced the run time of the script by 20%
- Improved customer retention rate by 15% by optimizing the ledger maintenance queries in SQL, This enabled faster updation of brokerage data in the user dashboard
- Generated administrative reports to track the customer onboarding process, this enabled analysis of key metrics such as hit rate and other pain points in the onboarding process.
- Reduced new user application rejections by 50% by integrating a video format conversion script that enabled seamless online e-kyc verification
- Implemented a batch processing system using AWS Sqs to process refund initiation of all unsuccessful applications, this improved refund TAT and transitioned the process into a paperless solution

## PROJECTS

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### MENACE: Machine Educable Noughts And Crosses Engine

- Developed an ML model in python using a reinforcement learning algorithm to choose the most optimal move based on the current board state and available positions
- Varied different metrics in the model to get an optimized hashset that had 100% accuracy in choosing the next move; Built a web application using react.js to enable player vs machine, player vs player and machine vs machine in the browser

### SafeTogether

- A pandemic management system that integrates various enterprises in a community to manage and curb the effects of a global pandemic in the future
- Application had various enterprises and user roles associated to each enterprise; Built with database support from Db4o and other services like sms and email notification, google maps and browser window functionality

### Kannada HWR

- Optical Character Recognition of handwritten documents in Kannada, a South Indian Language, this was done as part of the final year project of undergraduate study.
- Mnist dataset was used to train and build the Svm models for the character recognition application
- Also made a comparative analysis of supervised models like K-nearest neighbors and Support vector Machine model

## EDUCATION

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Northeastern University, Boston, MA

2023

### Master of Science, Information Systems

Application Engineering and Design, Program Structures and Algorithms

Visvesvaraya Technological University, Karnataka, India

2019

### Bachelor of Engineering, Information Science

Operating Systems, DBMS, Design and Analysis of Algorithms, Machine learning

## SKILLS & OTHER

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Skills: Java, Python, MongoDB, MS SQL, MySQL, Postgresql, ReactNative, ReactJs, NodeJs, Swing  
Tools: AWS, Confluence, JIRA, VSCode IDE, Github