

# AKARSH KASHAMSHETTY

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## EDUCATION:

University of Maryland, Baltimore County	GPA: 3.73	May 2021
Master of Science, Computer Science		
Gandhi Institute of Technology and Management	GPA: 3.7	April 2018
Bachelor of Technology, Computer Science & Engineering		
Relevant Coursework:	Networking Technologies, Design and Analysis of Algorithms, Artificial Intelligence and Machine Learning (ML/AI).	

## TECHNICAL SKILLS:

Programming Languages:	Java, Python, C++, Matlab, JavaScript.
Databases:	MySQL, MongoDB, IBM Netezza.
Web Development:	React, Express, NodeJS, Bootstrap, HTML, CSS.
Frameworks/Tools:	Eclipse, Armanta (reporting tool), VirtualBox.
Project Management Tools:	JIRA, Confluence, SharePoint, Git.
Operating Systems:	Linux(Ubuntu), Windows, macOS.
Development Practices:	Agile methodology, Waterfall.

## WORK EXPERIENCE:

**Associate Engineer**, *Virtusa Corporation, Hyderabad, India.* June 2018 - July 2019

- Developed and Streamlined **python** scripts, **SQL** queries to retrieve the data of size ~1M records from various upstream databases. Experience using databases in a business environment with large and complex datasets.
- Analyzed, aggregated, validated the records of trading **data**, and performed various checks and calculations to report the market risk metrics (VaR) to the client through data visualizations and reports.
- Reduced the manual work done in **Excel** by a factor of 70% with the help of **automation** using python.

**Software Developer Intern**, *Orbit Solutions, Hyderabad, India.* May 2017-Aug 2017

- Worked on developing a java web application for carpooling through traditional waterfall methodology.
- Used Servlets, JSP, XML technologies. Deployed the application on Apache Tomcat server for validating.

## PROJECTS:

**COVIDSuppliesStore** Jun 2020

- Designed, developed a web application, e-commerce site for selling masks and sanitizers using **Express**, **Nodejs**, for handling requests and responses in the backend through APIs. And handled front end pages using **React** framework while storing data of users, product purchases, orders, etc in **MongoDB**.
- Integrated Paypal payment gateway for processing payments.

**Centralized Multiuser Concurrent Bank Account Manager** Oct 2019

- Developed a bank **server** written in **C++**, which handles the multiuser transaction requests concurrently with the help of multithreading, to maintain and update the user records in client-server architecture and using socket programming.

**Intrusion Detection System** Nov 2019

- Developed a **machine learning** model(classifier) using **Random Forests** from Scikit-Learn package and achieved an accuracy of **87%**, to classify the attack and normal behavior of the system based on the network traffic, process activity parameters while handling **class imbalance** problem.

## MEMBERSHIPS AND ACTIVITIES:

- Member in **ACM**(Association for Computing Machinery) since Fall 2019.
- Participated in JP Morgan & Chase software engineering virtual experience program in Web Development.
  - Developed an alternative way to visualize and analyze share price data. Added stock monitoring functionality to the trader's user interface using python web development. Used git for version control.