

Akarsh Kashamshetty

akarshk1@umbc.edu | +1 443 388 4251 | <https://www.linkedin.com/in/akarsh-kashamshetty>

EDUCATION

University of Maryland, Baltimore County Master of Science, Computer Science <i>Relevant Coursework: Design and Analysis of Algorithms, Distributed Systems, Machine learning.</i>	GPA: 3.73	May 2021
Gandhi Institute of Technology and Management Bachelor of Technology, Computer Science & Engineering	GPA: 3.7	April 2018

TECHNICAL SKILLS

Programming Languages:	Python, Java, C++, MATLAB, JavaScript
Databases:	SQLite, MySQL, MongoDB, IBM Netezza
Web Development:	React JS, Express, Node.js, Bootstrap, HTML, CSS, RESTful API's
Frameworks/Tools:	Pandas, Scikit-learn, Tableau, VirtualBox
DevOps:	Git, AWS EC2, S3, lambda
Operating Systems:	Linux, Windows, Unix (macOS)
Development Practices:	Agile methodology, Waterfall

WORK EXPERIENCE

Teaching Assistant , <i>University of Maryland, Baltimore County, USA.</i>	June 2018 - July 2019
<ul style="list-style-type: none">Mentored Student understands concepts of objected oriented programming using C++.Held sessions to discuss and help in debugging in their projects students.	
Associate Engineer , <i>Virtusa Corp, India.</i>	June 2018 - July 2019
<ul style="list-style-type: none">Worked in MRNG (Market Risk Next Generation) and FRTB (The Fundamental Review of the Trading Book) projects in the Capital Markets domain.Developed APIs in Python to retrieve trading data from multiple sources.Aggregated and validated the collected data for missing information, data format, data inconsistencies.Performed data analysis to identify trends and generate reports on the market risk metrics (VaR) to be presented to the client. Created multiple visualizations using Tableau.Wrote multiple automation python scripts which reduced the manual work by 70%.	
Software Developer Intern , <i>Orbit Solutions, India.</i>	May 2017-Aug 2017
<ul style="list-style-type: none">Designed and developed a web application for providing carpooling facilities using Java.Used Java Servlets, JSP, XML technologies. Deployed the application on Apache Tomcat server for validating.	

PROJECTS

<https://github.com/akarshk97>

COVID Supplies Store – (MERN Stack)	Jun 2020
<ul style="list-style-type: none">Designed and developed a web application, for buying and selling items in high demand during the pandemic – for example selling masks and sanitizers.Wrote RESTful API's in Nodejs using the Express framework. User data, product data, and data about customer purchases were persisted and retrieved from MongoDB.Developed the frontend using the React.js framework. Integrated Braintree payment gateway for processing payments.	
Concurrent Bank Account Manager with Fault Tolerance	Oct 2019
<ul style="list-style-type: none">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. Implemented 2 phase commit protocol to maintain atomicity of transactions.	
Intrusion Detection System	Nov 2019
<ul style="list-style-type: none">Developed a machine learning model(classifier) in Python 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.	

ADDITIONAL INFORMATION

- 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.