

AMOD DHOPAVKAR

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EDUCATION

Northeastern University, Khoury College of Computer Sciences

Boston, MA

Master of Science in Computer Science | GPA: 4.0/4.0

Expected May 2024

- Coursework: Algorithms, Programming Design Paradigms, Web Development, Database Management Systems.

University of Pune

Pune, India

Bachelor of Engineering in Information Technology | GPA: 9.23/10

May 2021

- Coursework: Data Structures and Algorithms, Object Oriented Programming, Web Development, Operating Systems.

TECHNICAL SKILLS

- Programming Languages** Java, C/ C++, Python, JavaScript, jQuery, HTML, CSS, SQL, PHP.
- Databases** MySQL, BigQuery, MongoDB, NoSQL.
- Tools and Frameworks** Git, Google Cloud Platform, Node.js, React.js, Bootstrap, Django, Flask.

WORK EXPERIENCE

QUANTIPHI ANALYTICS

Mumbai, India

Data Engineer

August 2021 - June 2022

- Executed a shift from Elasticsearch transforms to BigQuery reducing cost by 70%, while simultaneously improving performance by over 30%. (Tech Stack: Elasticsearch transforms, MySQL, BigQuery).
- Created an automated pipeline to migrate data from an onsite location to BigQuery, deploying Cloud Function to perform transformations, raised revenue per product by 60%. (Tech Stack: Google Cloud Platform, Python, MySQL, Cloud Function).
- Built a Python pipeline to convert NetezzaSQL queries to SnowSQL and push the data to Google Cloud Storage, optimizing development time. (Tech Stack: Python, SnowSQL, NetezzaSQL, Google Cloud Storage).

VERITAS TECHNOLOGIES LLC

Pune, India

Project Intern

August 2020 - March 2021

- Enhanced kernel module of Distributed Replicated Block Device to track the data packets leading to a superior packet traceability and a 22% increase in platform performance. (Tech Stack: C, Linux Kernel Programming, CScope).
- Implemented Binary Classifier on the data obtained to identify potential outages, decreasing active downtime by 12%. (Tech Stack: Machine Learning, Decision Trees, Binary Classifier, Matplotlib).

RELEVANT PROJECTS

COVID-19 FACE MASK & TEMPERATURE DETECTION SYSTEM

- Leveraged OpenCV library to establish a real-time face mask detection system for enforcing covid protocols.
- Furthermore, used Computer Vision based temperature estimation to establish if a person has fever. (Tech Stack: Computer Vision, OpenCV, Pytorch, Python).

SMART TAX REBATE CALCULATOR

- Devised a tax calculation application to calculate federal and state taxes for each product by evaluating tax rebates from the previous accounts, saving 50+ man-hours. (Tech Stack: MySQL, HTML, CSS, Bootstrap).

ONLINE LIBRARY MANAGEMENT SYSTEM

- Developed a web application for managing and tracking books, primarily designed for university's library. The system handles current inventory and issue and return of books. (Tech Stack: MongoDB, NodeJS, React, Express).

AUTOMATED CREDIT RISK ANALYSIS

- Automated credit risk analysis process by utilizing Random Forest Classifier, thus eliminating the need of manual credit risk verification. (Tech Stack: Machine Learning, Random Forest Classifier, Decision Trees, Python, Scikit-Learn, NumPy, Pandas).

LEADERSHIP AND COMMUNITY EXPERIENCE

Graduate Teaching Assistant, CS 3520: Programming in C++

January 2023 - Present

- Assisting the instructor in developing course materials, such as assignments, exams, and lab exercises.
- Holding office hours and providing one-on-one assistance to students who need extra help.
- Grading student work and providing feedback to help them improve their programming skills.

Joint Treasurer, LOCAL IEEE STUDENT CHAPTER

September 2018 - December 2020

- Co-managing the chapter's finances, ensuring that all transactions are recorded and that the chapter remains financially stable.
- Creating and maintaining a budget for the chapter, in collaboration with the other officers and faculty advisor.