

# Harshavardan Ramadas

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## Education

### Master of Science, Computer Science

Aug 2021 – Feb 2023

University at Buffalo, The State University of New York, Buffalo, NY

GPA: 3.66/4.0

Courses: Analysis of Algorithms, Operating Systems, Machine Learning, Robotic Algorithms, Modern Networking Concepts, Computer Vision & Image Processing, Blockchain, Project Development

### Bachelor of Engineering, Electronics and Telecommunication

Aug 2014 – May 2018

BMS College of Engineering, Bengaluru, India

GPA: 8.87/10.0

Courses: C++ and Data Structures, Computer Communication Networks, Operating Systems

## Technical Skills

Programming Languages:	Python, Java, C++, JavaScript, PL/SQL, HTML, CSS
Databases:	Oracle 9i Developer, MySQL, PostgreSQL, MongoDB
Tools and Frameworks:	Node.js, Flask, React, Jenkins, Docker, AWS, Github, Tableau, JIRA
Certification:	Microsoft – Azure Fundamentals (Dec 2022)

## Work Experience

### Software Engineer | Accenture, Bengaluru, India

Sep 2018 – Aug 2021

- Automated data pipelining and pre-processing steps that effectively reduced weekly manual effort of 15hrs by using Python and PL/SQL scripts to create an interface between server and Netezza database
- Improved performance of multiple traditional scripts and batch files close to 40% by developing custom executables with C++ for extracting/importing objects between source and target servers
- Assisted in customization of Intelligent Recommendations machine learning algorithm used to predict and classify ads/services through collaborative filtering and cross-validation using data sets with 50+ million records
- Led DTO team of 3 to maintain and enhance multiple SQL server configurations and delivered ad-hoc requests that included creating and running batch jobs, analyzing performance via SSMS and Visual Studio
- Collaborated with clients and worked on optimization of code, while contributing insights on existing processes for cost-cutting and reliability, thereby improving the performance of reporting solutions up to 30%
- Experienced working in sprints in an Agile environment

### Intern | Ivory Edge, Bengaluru, India

Feb 2018 – Apr 2018

- Programmed detection and security products for audio/video, security and remote access by integrating with Vantage IC DIN2 controller through socket programming and wireless security APIs

## Academic Projects

### Timecapsule App [PostgreSQL, AWS, Node.js, React, HTML/CSS]

- Built a mobile application for timecapsulellc.com as part of Project Development course
- Responsible for design and development of database and back-end algorithm for timecapsule tree that allows user to access and share added content based on time

### E-Shoppe [MongoDB, Node.js, Express, React]

- Created web application and developed backend for a robust e-commerce system that allows retailers to organize, process and fulfil their orders
- Designed MyCart and other supporting pages and enhanced the functionality of CRUD operations with MongoDB

### Convolutional Neural Network for Fashion MNIST [Colab, Python, Pandas, Matplotlib]

- Built a fully connected Convolutional Neural Network in python to classify fashion MNIST dataset
- Achieved accuracy of 92.3% through hyperparameter tuning, data augmentation, image and categorical pre-processing techniques

## Awards and Publications

- APEX award – for delivering high quality solutions and making an impact on client value creation, Accenture 2020
- ACE award – for outstanding contribution to client's business outcomes, Accenture 2019
- Presented and published - Implementation of Security System and its Interconnection with Lighting, Emerging Trends in Photonics, Signal Processing and Communication Engineering-2018 by Springer, Bengaluru [\[Link\]](#)