

BHAVYA HARIDAS

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Systems Engineering - Specialization in IoT

Expected May 2020

Courses - Object Oriented Design with Java, Data Science Methods and Tools,

Program Structures & Algorithms, Network Structures & Cloud Computing.

Cochin University of Science and Technology

Cochin, India

Bachelor of Technology in Electronics and Communication

May 2015

WORK EXPERIENCE & KEY PROJECTS

- **Spectro Scientific - AMETEK Inc.** Boston
Software Engineer Co-op July 2019 - Present
 - Implemented enhancements to improve user interaction with proprietary **WPF** and **WinForms** based fluid spectrum analyzers that are used to analyze oil and related compounds. Enhanced a **WPF** app to track the history of rules imported using it to SQL by clients to separate critical and non-critical datapoints in analysis results.
- **CenSSIS, Northeastern University** Boston
Web Applications Assistant January 2019 - June 2019
 - Developed **ASP.NET** web apps in **C#** to administer career events held by Gorden - Center for Subsurface Sensing and Imaging Systems (CenSSIS) for college students interested in careers related to homeland security.
- **FactSet Research Systems Inc.** Hyderabad, India
Software Engineer June 2015 - June 2018
 - Developed RESTful **ASP.NET Web API** services using **C#** to manage data transfer across various stages of stakeholders' workflows and for detailed workflow reporting of over 200 internal clients.
 - Developed **ASP.NET** services using **C#** for utilizing Speechmatics automatic speech recognition technology in Factset's audio transcription tool which reduced audio transcript deliverable time by 80%
 - Implemented activity tracking for client dispute resolutions in a **Classic ASP** web app written in **Visual Basic, JavaScript** and **JQuery**.
 - Designed, developed and took ownership of a **C#** application to calculate productivity metrics of analysts from data stored in **SQL** which helped to decrease the time taken by clients to calculate compensation by 40%.
 - Improved data validation reliability by refactoring a web app used by analysts for recording financial calls' metadata from **Classic ASP** to **ASP.NET** and by using custom controls.
- **Yoyo Aerospace Pvt. Ltd.** Cochin, India
Engineering Intern May 2014 - July 2014
 - Implemented object tracking and position control for home automation using Arduino and MATLAB

ACADEMIC PROJECTS

- **Social Media Text Toxicity Classification (Python, Flask)**
 - Developed a **Flask** web app to analyze text toxicity in social media using a model with 93% accuracy trained on features extracted using **Scikit learn** and **NLTK**. <https://github.com/bhavyaharidas/Text-Toxicity-Classifer>
- **Highly Scalable Library Management System (Java, AWS, Linux)**
 - Designed and built a cloud service to manage library books, cover images, client memberships by using **AWS cloud formation** to create an **AWS EC2, S3, DynamoDB** resource stack. Setup CI-CD using CircleCI and AWS CodeDeploy, and health monitoring with AWS CloudWatch. <https://github.com/bhavyaharidas/ccwebapp>
- **Ad-hoc Network Creation and Management System(Data Networking, Linux)**
 - Designed a dynamic, secure network in Ubuntu 16.04 by configuring DNS (BIND), DHCP and Apache Webserver with a firewall. Setup a VPN ensuring a secure connection between two hosts by establishing IPsec tunnel.
- **Biological Growth Simulation (Java)**
 - Implemented Cellular Automata with UI using Swing in **Java** to simulate plant growth over a user-defined period. <https://github.com/bhavyaharidas/plant-growth>

SKILLS

C#, Java, Python, C++, VB, SQL, WPF, JavaScript, Spring Boot, Entity Framework, AWS, Selenium, Git, Docker, CI-CD