

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 Engineering Methods and Tools,

Program Structures & Algorithms, Data Networking, Network Structures & Cloud Computing.

Cochin University of Science and Technology

Cochin, India

Bachelor of Technology in Electronics and Communication

May 2015

SKILLS

Languages : C#, Java, Python, Visual Basic, C, C++, JavaScript, Shell, SQL, MySQL

Frameworks : WPF, ASP.NET, WinForms, Entity Framework, Classic ASP, Flask, Spring Boot

Cloud Services : AWS - VPC, EC2, S3, RDS, CloudWatch, CodeDeploy, SES, SNS, Lambda Functions

Tools : Visual Studio, Jenkins, CircleCI, BitBucket, GIT, Perforce, TFS, IIS, Docker, Selenium

WORK EXPERIENCE AND KEY PROJECTS

• Spectro Scientific - AMETEK Inc.

Boston

Software Engineer Co-op

July 2019 - December 2019

- Enhanced proprietary **WPF** and **WinForms** based Oil spectrum analyzers for improved user interaction.
- Enabled error logging for client support on a **WinWrap** based Analyzer reducing client resolution time by 70%.
- Enhanced a **WPF** app to track a history of rules imported by clients using the app to a SQL database. The rules imported are used 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 **VB.net** web app with **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.

ACADEMIC PROJECTS

• Highly Scalable Library Management System (Java, AWS, Linux)

<https://github.com/bhavyaharidas/ccwebapp>

- Designed and developed **REST API** services to manage library books, cover images (stored in AWS S3) and memberships in **Spring Boot** with slf4j logs and statsD custom metrics monitored on AWS CloudWatch
- Used shell scripts and AWS CloudFormation to create AWS infrastructure. Create software stack with VPC, EC2, RDS Instances with the required IAM roles. Implemented CI-CD using Github, CircleCI and AWS CodeDeploy.

• 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) <https://github.com/bhavyaharidas/plant-growth>

- Implemented Cellular Automata with UI using Swing in **Java** to simulate plant growth over a user-defined period.