

# NIHAR DWIVEDI

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## EDUCATION

**Boston University** | Boston, MA

Expected January 2021

Master of Science in Electrical and Computer Engineering

*Coursework:*

- |                             |                     |                          |
|-----------------------------|---------------------|--------------------------|
| • Digital Signal Processing | Product Design      | Design by Software       |
| • Cloud Computing           | Parallel Algorithms | Advanced Data Structures |
| • Cybersecurity             | Deep Learning       |                          |

**Kalinga Institute of Industrial Technology** | Bhubaneswar, India

July 2015 - April 2019

Bachelor of Technology in Information Technology

*Coursework:*

- |                                  |                            |                   |
|----------------------------------|----------------------------|-------------------|
| • Data Structures and Algorithms | Computational Intelligence | Computer Networks |
| • Operating Systems              | Web Technology             | Compiler Design   |
| • Object-Oriented System Design  | Mobile Computing           |                   |

## SKILLS

*Programming Languages:* Proficient in: Python, C++ | Familiar with: PowerShell, JavaScript, C#, Java, C

*Tools:* Proficient in: MySQL, HTML, CSS | Familiar with: MongoDB, React, Angular, GraphQL, NodeJS, JSON, Flask, Firebase, AWS, K8s, Openshift, Docker, PyTorch, Tensorflow, OpenMP, OpenACC, CUDA

## PROJECTS

**Language Error Detection | Boston University**

January - April 2020

- A Java application to learn from scraped web text data and predict the correctness of user-given sentences.

**Data Science and OpenShift on the Mass Open Cloud | Boston University**

January - April 2020

- An Openshift container application to detect anomalies in and predict future values for various cloud metrics.

**Steel Defect Detection | Boston University**

September - December 2019

- A Kaggle competition data science project that achieved 70% accuracy on the competition test dataset.

**Twitter Sentiment Analysis | Boston University**

September 2019

- A Python script that generates sentiment scores for tweets containing a user given keyword using Twitter's public API.

**Embedded Machine Learning | Boston University**

November 2019

- An Android app showcasing a simple object detection model using Google's MLKit framework.

**Image Style Transfer | Kalinga Institute of Industrial Technology**

March 2018

- A simple python script to demonstrate image style transfer utilizing Tensorflow on a local GPU.

## EXPERIENCE

**Deloitte** | Hyderabad, India

January - May 2019

*Software Engineering Intern*

- Worked in the engineering team responsible for an internal tool used for audits of systems and databases.
- Developed the PowerShell code shipped in the next major release.
- Collaborated with senior engineers, utilizing C# and JavaScript to develop new features for the web-based frontend.
- Responsible for maintaining and extending the user documentation for the tool.

**Builtify** | Bhubaneswar, India

January - April 2018

*Intern*

- Coordinated with another intern to develop the database backend for the product catalog.
- Led the development of a new website for the business, utilizing HTML, CSS, and JavaScript.
- Increased traffic by a factor of 4 and retention by a factor of 10 through the new website.

## CO-CURRICULAR

- Placed second in an undergrad Python programming competition.
- Participated in various academic conferences and symposiums held in college on Machine Learning, Cloud Computing, and GPU programming.
- Won a college quiz on Cloud Computing.