

# AASTHA ANAND

60 Kilsyth Road, Brookline, MA 02445

(617)818-2272 • <https://aastha24.github.io/aastha.github.io/> • [aastha24@bu.edu](mailto:aastha24@bu.edu)

## EDUCATION

Boston University, College of Engineering

**Master of Science in Computer Engineering with Practice, expected in Jan 2018**

**Boston, MA**

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### Coursework:

Design by Software (C++, Python) • Advanced Data Structures and Algorithms • Graduate Introduction to Databases • Computer Science Topics: Mobile Application Development • Cloud Computing • Information Structures in Python • Building Software Products in ECE • Product Design in ECE • Advanced Digital Design using Verilog and FPGA

Visvesvaraya Technological University, Dayananda Sagar College of Engineering

**Bangalore, India**

**Bachelor of Engineering in Electronics and Communication, June 2016**

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**Relevant Coursework:** C concepts and Computer Programming • Operating Systems • Image Processing • Information Theory and Coding

## TECHNICAL SKILLS

**Software Development Languages:** C, C++, C#, Python, Java, SQL

**IDE:** Microsoft Visual Studio, Pycharm, Eclipse, Android Studio, Microsoft SQL Server Management Studio, Xcode, Jupyter Notebook

**Operating Systems:** Windows, Unix, Linux

**Web Development:** HTML-5, CSS3, JavaScript

**Tools:** GitHub, Perforce, Fiddler, Postman, JIRA, Slack, NCrunch, Confluence, Trello, Bootstrap, MATLAB

**Hardware Development Language:** Verilog

## EXPERIENCE

**Software Engineering Intern: Monster Worldwide (June 2017 – Aug 2017)**

**Weston, MA**

- Independently implemented a RESTful Web API service using Microsoft .Net framework, Microsoft Visual Studio and coded in C#
- Achieved success in replacing the semi-manual process of warming-up applications and making it an automated part of deployment
- Attained experience with MVC architectural pattern, Asynchronous Programming and Multithreading in C#
- Extensively used SQL server and created tables, stored procedures for interaction with database
- Performed Test-Driven Development for a part of the project using NCrunch and Microsoft Visual Studio
- Gained experience with Perforce, JIRA, Confluence and Agile Software Development practices as a part of Release Automation team

**Software Development Intern: Optimize IT Systems (July 2016 – Aug 2016)**

**Kolkata, India**

- Completed a project that dealt with Web Development using HTML-5, CSS3 and JavaScript
- Worked on Android Application Development (Java) & iOS Application Development (Swift) using Android Studio & Xcode
- Proposed ideas and identified loopholes in the UI/UX of each of the applications

**Training/Certification: Programming in Java (Feb 2016 – April 2016)**

**Bangalore, India**

- Successfully completed a 5-credit course of Programming in Java from NIIT Technologies Limited

**R&D Intern: Calcutta Electric Supply Corporation (Jan 2015 – Feb 2015)**

**Kolkata, India**

- Observed the working of Distribution of Electricity and Maintenance Software, “E-bill” Software and online “Quick Pay” system

## PROJECTS

**Image Foreground/Background Segmentation using Network Flow:**

- Implemented k-means clustering algorithm (Python) and Ford-Fulkerson algorithm(C++) for the project
- Developed an interactive GUI using Tkinter (Python) through which the user can select the image to be segmented

**OpenStack Networking Plugins: Optimizing Performance by Cisco (Open-Source Team Project):**

- Focused on testing of Network Performance (OpenStack: Neutron) and creation of API to provide software networking solutions
- Used Python (IDE: Pycharm) for OpenStack, Linux OS for a Devstack environment and incorporated Scrum/Agile Software practices

**Likhavat - An Android Application:**

- Built an application with the aim of recognition of handwritten texts/alphabets from an image or written by user into the application
- Worked on Android Studio (Java) and used MyScript, Optical Character Recognition and Mobile Vision API for the project

**FitGo - Fitness Application:**

- Completed creating a Responsive Web-based Application using HTML-5, CSS3, PHP and Amazon Web Services (EC2)
- Gained experience with working with GitHub, Slack and using predesigned database (Nutritionix) and API's

**FPGA Acceleration of DNA Sequence Mapping**

- Designed the Smith-Waterman Algorithm using Verilog and C

## ACTIVITIES & ACHIEVEMENTS

- Received the Outstanding Student (2016) award from ECE Department: Dayananda Sagar College of Engineering (DSCE)
- Senior Placement coordinator and Student Representative at DSCE 2014-2016
- Worked with “Help Age India” and “Parivartan”; organized Run for Cancer and Run for Autism marathon at DSCE