

AASTHA ANAND

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EDUCATION

Boston University, **College of Engineering**

Boston, MA

Master of Science in Computer Engineering, expected in Jan 2018

3.72/4

Coursework: Design by Software (C++, Python), Advanced Data Structures and Algorithms, 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 & Communication Engineering, July 2016

4/4

Relevant Coursework: Computer Concepts and C Programming, Operating Systems, Image Processing, Computer Communication Networks, Information Theory and Coding, Network Security

TECHNICAL SKILLS

Software Programming Languages: C, C++, Python, Java

Hardware Development Language: Verilog

IDE: Pycharm, Visual Studio, Eclipse, Xcode

Web Development: HTML-5, CSS3, JavaScript

Tools: Android Studio, Bootstrap, MATLAB, Keil, Xilinx, Cadence

Operating Systems: Linux, Windows, Mac OS

EXPERIENCE

Software Development Intern: Optimize IT Systems

(July – August) 2016

- Assisted on a project that dealt with Web development using HTML-5, CSS3 and JavaScript
- Worked on development of Android Application (Java Programming) using Android Studio
- Worked on iOS Application Development with Swift using Mac OS X and Xcode
- Proposed ideas for the UI and UX of each of the applications

Training/Certification: Programming in Java

(February – April) 2016

- Worked on a 5-credit course in Programming in Java from NIIT Technologies Limited

Internship/Training: Calcutta Electric Supply Corporation Ltd.

(January – Feb) 2015

- Worked on the Distribution of electricity and Maintenance Software System
- Observed the working of “E-bill” Software and online “Quick Pay” system and identified loopholes in the “Quick Pay” system

PROJECTS

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

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

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

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

- Built a Responsive Web-based Application as a part of coursework Product Design in ECE
- Worked on HTML-5, CSS3, PHP and used Amazon Web Services for the project
- Gained experience with working on GitHub and Slack
- Dealt with work on Databases (Nutritionix) and API's

FPGA Acceleration of DNA Sequence Mapping

- Analyzed efficient ways to DNA Sequence Mapping using hardware - FPGA technology
- Designed the Smith-Waterman Algorithm using Verilog and C

Electronic – Assistance for the elderly and disabled

- Worked on MPLAB IDE for development on PIC microcontroller and completed efficient coding/testing using Embedded C

ACTIVITIES & ACHIEVEMENTS

- Received the Outstanding Student (2016) award from ECE Department DSCE
- VT University rank holder of ECE branch (DSCE) in 2013, 2014 and 2015
- 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