AASTHA ANAND

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EDUCATION

Boston University, **College of Engineering** **Boston, MA**
Master of Science in Computer Engineering with Practice, Jan 25th 2018 **3.72/4**
Coursework:

Design by Software (C++, Python) • Advanced Data Structures and Algorithms • Graduate Introduction to Database Management Systems • Computer Science Topics: Mobile Application Development • Cloud Computing • Information Structures in Python • Building Software Products 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 **4/4**
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
Database Management Systems: MySQL, MS SQL Server, PostgreSQL

Web Development: HTML, XML, CSS, JavaScript
Tools: GitHub, Perforce, Fiddler, Postman, JIRA, Slack, NCrunch, Confluence, Trello, Bootstrap, MATLAB
Operating Systems: Windows, Linux, Unix

EXPERIENCE

Software Engineering Intern: Monster Worldwide (June 2017 – Aug 2017) **Weston, MA**
- Independently implemented a RESTful Web API service using ASP.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 and optimized efficiency of databases
- Performed Test-Driven Development and unit-testing 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

PhotoShare – An online photo social network system:
- Designed and implemented a database system using MySQL and Pycharm IDE
- Implemented a web-based interface to the database for the application using Flask micro web framework in Python

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

ACTIVITIES & ACHIEVEMENTS

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