

Chaitanya Bapat (Chai)

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Seeking Internship for Summer 2018

EDUCATION

Georgia Institute of Technology, Georgia, USA

Expected Dec 2018

Masters of Science in Computer Science, Specialization – Machine Learning

Sardar Patel Institute of Technology, University of Mumbai, India

May 2017

Bachelor of Engineering in Computers with *Distinction*

(CGPA 8.41/10)

Relevant Courses – Data Structures, Operating Systems, Computer Architecture, Analysis of Algorithms, Software Engineering

SOFTWARE SKILLS

- Programming Languages: C, Python, Java
- Big Data frameworks: Apache Hadoop, Apache Spark, Pachyderm
- Cloud: AWS S3, EC2, Lambda, Redshift
- Data Visualization: D3.js, Tableau
- Databases: MySQL, Oracle SQL, MongoDB, DynamoDB
- Web Technologies: HTML5, CSS3, JavaScript, PHP7, JQuery, AJAX, Django

PROFESSIONAL EXPERIENCE

Georgia Institute of Technology, Atlanta

Aug 2017 – Present

Graduate Research Assistant – Center for 21st Century Universities (C21U)

- Researching on the best practices for Massive Online Open Courses (Udacity and Coursera) and Vertically Integrated Programs
- Analyzing and evaluating the performance of Online platforms vs On-Campus for CS1201 course

Nexchanges Marketplace Private Limited, Mumbai

May 2016 – Dec 2016

Data Science Intern - Technical Department

Data Extraction & Warehousing

- Spearheaded the team completing 10 Web Scrapers hosted on Scrapy Cloud which have extracted more than 10 million data points from 7 online real-estate platforms across a period of 2 months
- Implemented **spatio-temporal clustering** for predicting real-estate prices for 5 Mumbai zones using Apache Spark and MLlib

Data Visualization

- Designed the Dashboards that provided insights on Key Performance Indicator and improved the sales by 20% growth MoM

Quickwork Technologies Private Limited, Mumbai

May 2015 – Dec 2015

Software Developer Intern- Engineering Department

- Developed **mobile application** using Java and TeamChat Client SDK based on **messenger bots** where all transactions and interacts are fortified by Natural Language Processing and Artificial Intelligence
- Handled the backend of the entire application in MongoDB, a NoSQL document-oriented database

ACADEMIC PROJECTS

Report – Interactive, Patient-centered Radiology Reports

Aug 2017 – Dec 2017

- Annotating reports with Lay Language definitions using Natural Language Processing (Apache cTAKES)
- Visualizing 3D human body models using BioDigital API for explaining complex anatomical concepts

Smart Locks Re-engineered: Securing IoT devices using Cryptography and Steganography

Aug 2016 – May 2017

- Designed the Smart Lock using the Raspberry Pi 3 Model B, capable of ensuring secure locking system
- Re-engineered **BLE protocol** to mitigate the vulnerabilities like Man-in-the-Middle attack
- Research paper published by Springer in **Communications in Computer & Information Science Series(CCIS)**, ISSN: 1865:0929

Skin Image Recognition using RGB, HSV, YCbCr models

Jan 2016 – Dec 2016

- Designed an algorithm for identifying skin pixel from non-skin pixel using the RGB, HSV, YCbCr models
- Applied Linear Regression and Bayesian Classifiers for carrying out Segmentation of Skin Images
- Research Paper published in **Springer-Atlantis "AISR(ISSN1951-6851)"** book series, doi:10.2991/iccasp-16.2017.51

PERSONAL PROJECTS

Fantasy Premier League Dataset

- Extracted and published Fantasy Premier League 2017 player data (~250mb) on Kaggle using Python libraries and REST APIs

Envitter (Environment-sensitive Twitter)

- Developed a Social network based solution to tackle environmental problems with Android application and Web dashboards

HelpCenter

- Built an Android application designed to keep track of patient's medications and meals using Reminders, Call and Notifications

Multi Copy-Paste

- Wrote Linux shell script package allowing user to seamlessly perform multiple copy-paste operations