

Chaitanya Bapat (Chai)

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Seeking Full Time for Fall 2019

EDUCATION

Georgia Institute of Technology, Georgia, USA

Expected May 2019

Master of Science in Computer Science, Specialization – Machine Learning

(GPA 3.62/4)

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

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

PROFESSIONAL EXPERIENCE

Amazon.com Inc

Sept 2018 – Dec 2018

Deep Learning Intern – Amazon Web Services

- Among top 10% of Contributors to Apache MXNet, an open-source Deep Learning framework
- Designed and implemented new user-critical APIs - Debug operators, Constant initializer for NDArray
- Wrote random integer sampling operator that gave 17x speed-up over the existing equivalent Numpy library method

Verizon Connect, Atlanta

May 2018 – Aug 2018

Software Engineer Intern – Research and Development

- Built an ensemble model for Predictive Maintenance of automobiles based on Diagnostic Test Codes (DTC)
- LSTM-based model ingested time-series data and performed well with 79.2% precision
- Experimented on Device-to-Blockchain, novel concept of storing vehicle data directly onto the blockchain without the involvement of any other third-party with performance testing on Ethereum and HyperLedger Sawtooth

Georgia Institute of Technology, Atlanta

Aug 2017 – May 2018

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

- Built a decentralized app. (dApp) for academic credential management using Solidity on Ethereum blockchain
- Researched on the best practices for Massive Online Open Courses (Udacity and Coursera) and Vertically Integrated Programs
- Analyzed and evaluated 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

- 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

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

Rapport – 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 in **Communications in Computer & Information Science Series**(CCIS), [10.1007/978-981-10-6898-0_27](https://doi.org/10.1007/978-981-10-6898-0_27)

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](https://doi.org/10.2991/iccasp-16.2017.51)