

BHARGAVA UKKALAM

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EDUCATION

- Stony Brook University, Stony Brook, NY** **Dec 2018(Expected)**
GPA-3.52
- Master's Degree in Computer Engineering
 - Relevant coursework** - Analysis of Algorithms, Data Structures and Algorithms in Java, Mobile Sensing Systems and Applications, Mobile Cloud Computing, Computer Networks, Pattern Recognition
 - Teaching Assistant** – Computer Techniques for Electronic design. (C++, Data Structures and Algorithms)
- PES Institute of Technology, Bengaluru, India** **Sep 2011-May 2015**
- Bachelor's Degree in Electronics and Communication

SKILLS

Programming languages/Databases: Java, Python, C++, JavaScript, SQL, MongoDB
Frameworks/IDE/Editors: Flask, Node.js, Eclipse, Visual Studio, Android Studio, Spyder, Jupyter, MS SQL Server
Operating systems/Version control system: Microsoft Windows, Mac OS, Linux, GIT

EXPERIENCE

- IPC Systems, Inc : (Python, Pandas, NumPy, Matplotlib, Jupyter, SQL, Flask, Node.js, REST API, Agile)** **New Jersey, US**
Jun 2018-Aug 2018
- Software Developer Intern | Research and Development team**
- Developed python applications to analyse and visualise data on revenue generated by IPC's product-Unigy360.
 - Designed and developed Python scripts to fetch and analyse the relevant data from CSV, excel files and export data to SQL and perform data visualization using Python libraries(NumPy, Pandas, Matplotlib) and Jupyter.
 - Designed database tables, stored procedures to store and process the data from the Python scripts.
 - Developed a Python application to automate the process of dialing into outlook conference calls from Unigy360 application.
 - Developed REST API's using Flask and Node.js with CRUD functionality and integrate it with front end application.
- ERICSSON: (SQL, Python, Pandas, JavaScript, HTML, CSS)** **Bengaluru, India**
Oct 2015-Apr 2017
- Network Engineer**
- Performed data analytics on large sets of detailed RAN (3G/4G LTE) excel data using Python and SQL.
 - Developed Python scripts to extract site data from bulk excel network data and analyse the patterns of errors in site.
 - Designed database tables in SQL to segregate and store relevant 3G/4G LTE sites and network data.
 - Developed a web application using HTML, CSS and JavaScript for monitoring carriers, logging errors and downsites.
 - Optimized in-application SQL statements and queries used for front end application.

PROJECTS – [Github handle](#)

- Unix File System with B-Trees: (Java, Data Structures and Algorithms)** **May 2018-Jul 2018**
- Designed and developed an Unix file system that allows several file/directory operations and stores metadata.
 - Implemented B-Trees to store specified number of files and enable efficient insertion, deletion, quick access to files/directories.
 - Got acquainted with file systems concepts, data structures and implemented Object Oriented Programming concepts.
- Design and Build a Database Engine: (Java, SQL, Data Structures and Algorithms)** **Jul 2018-Aug 2018**
- Designed and implemented principles involved in Database engine and Create, Read, Update, Delete(CRUD) functionalities.
 - Designed and built record file storage, table indexing, paged file manager etc.
 - Learned the technicalities and concepts of Database Management Systems (DBMS) through this project.
- ChatBot: (Python, TensorFlow, Anaconda, Seq2Seq Architecture with Beam search)** **Jul 2018-Aug 2018**
- Developed a customized chatbot using Deep Natural Language Processing model on Cornell movie dialogue dataset.
 - Implemented Seq2Seq architecture and training algorithm with beam search encoding technique.
- Amazon clone- Shopping website: (Node.js, MongoDB, Elasticsearch, EJS, mlab)** **Sep 2017-Dec 2017**
- Designed and developed a ecommerce web application with backend Node.js server and passport.js for authentication.
 - Used MongoDB to store application data and host the data on mlab cloud database service.
- Bitcoin Cryptocurrency market – Data Analysis: (Python, Jupyter)** **Jan 2018-Mar 2018**
- Aggregated and consolidated data from the coinmarketAPI using Python to study the general trend of Cryptocurrency market.
 - Compared the Top 10 Cryptocurrency market capitilization and analysed daily, weekly market fluctuation and winners and losers.
- Spotify Playlist Generator : (ReactJS, HTML, CSS, JavaScript, Spotify API)** **Feb 2018-Apr 2018**
- Designed and developed a React web application called Jamming which allows user to search Spotify library for songs.
 - Created a custom playlist which allowes users to save playlist to their Spotify account and access it.