

# SOURAB CHARKA

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## Profile

Seeking the position of a software development engineer where my professional experience will contribute positively towards the tremendous growth of the organization.

## Social Media



LinkedIn



Git

## Work experience

**Graduate Assistant** 06/2019 – 05/2020  
School of Health Professions, Old Westbury, New York

1. Worked with tools such as Microsoft Office Applications for data entry and file management.
2. Supported in the modification of admission procedures and office projects.
3. Oversaw groups of over 50 students and assisted with academic projects.
4. Liaised between faculty and students to answer questions and optimize faculty time.
5. Prepared materials for reports, presentations and submission to peer-reviewed journal publications.
6. Created lesson materials, visuals and digital presentations to supplement lesson plans.
7. Assisted faculty members with data collection for potential academic publications.

**Software Developer Intern** 05/2017 – 06/2017  
Magnaquest, Hyderabad, India

Utilized skills in C++ and Java while developing Mobile applications for medium sized businesses.

## Education

**Masters in Computer Science** 09/2018 – 05/2020  
New York Institute of Technology, Old Westbury, USA

*Cumulative GPA: 3.85*

**B.E, Electrical Engineering** 09/2014 – 05/2018  
Chaitanya Bharati Institute of Technology, Hyderabad, India

## Skills

### Languages

Java, C++,  
JavaScript/TypeScript,  
Python, C, SQL, HTML, CSS

## Skills

### Java

Spring Boot, Security,  
Spring Data JPA +  
Hibernate, Swagger, H2,  
JAX-RS, Spring 3 MVC,  
Remote Method  
Invocation

### Database

MySQL, PostgreSQL,  
MongoDB, Microsoft Azure

### Python

PyMongo, Scikit Learn,  
Numpy, Pandas

## Projects (Personal, Academic)

### Database Project

Academic

1. Lead the team to design a database system storing the equipment data and financial information for a construction company.
2. Mentored four of my peers in tools, techniques & processes used in the industry.
3. Provided 1-on-1 tutoring and knowledge transfers on a regular basis.
4. Lifted-off development by starting with initial bootstrapping, creating extensive documentation, tutorials/ implementation guide documents and assigning stories to team members.
5. Scheduled and initiated weekly hangout meetings to coordinate the team and set goals.
6. Built an application on Jupyter Notebook (Python) to interact with the database in Microsoft Azure. MySQL was also used as an alternative.
7. Designed a Python based GUI for the application.
8. Served as DBA in the completion of this medium scale project.

### Regression Analysis - AI Course Final Project

1. Executed Linear Regression analysis on a data set containing the currency exchange rate for US Dollars and Chinese Yuan for a period of 20 years. Predicted rate changes for a month based on previous data changes.
2. Implemented various packages in Python depending on their functionality and usability.

### Power System Design

Designed a Simulator to monitor and control Reactive power in power transmission cables using PSpice and MATLAB software to effectively transfer power between transmission towers with minimum power loss - Final year project at Chaitanya Bharathi Institute of Technology

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To find more projects, please visit my Github Profile :  
<https://github.com/sourabc9>