

## GEETHA MADHURI CHITTULURI

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Portland, OR

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### OBJECTIVE

Seeking a Software Engineering Position in an organization where I can use my problem-solving skills and innovative ideas for development of the company as well as my career.

### Education:

#### **Master of Science in Computer Science Engineering (Sep 2019 – Current)**

Portland State University, Portland, Oregon

**GPA:** 3.75/4.0

**Course Work:** Full Stack Web Development, Front End Web Development, Introduction to Database Management, Database Implementation, Cloud & Cluster Data Management, Data Engineering

#### **Bachelors in Electronics and Computer Engineering**

Koneru Lakshmaiah College of Engineering (Affiliated to Acharya Nagarjuna University), India.

**CGPA:** 7.7/10

### Skills:

Programming Languages: Python

Databases and Big Data: PostgreSQL, MongoDB, SQLite3

Web Technologies: HTML5, JavaScript, CSS, Bootstrap

BI tools: Cognos, Tableau

Microsoft tools: Excel, Word, PowerPoint, Visio

### Academic Projects:

#### **Instapix – Photo Sharing Application**

**Project Link:** [See Project](#)

**Technologies:** Python, JavaScript, HTML, CSS

Instapix is a photo sharing application, similar to Instagram, which allows users to share photos, follow other users and view the posts of their followers. Every user who creates an Instapix account has a profile and a newsfeed. Implemented the following features - account creation and logging into it, viewing the newsfeed, and most importantly uploading pictures (creating posts), follow the users who are not in the user's account.

#### **CoronaVirus Dashboard Application**

**Project Link:** [See Project](#)

**Technologies:** JavaScript, HTML, CSS

Built the COVID-19 tracker, a dashboard application, where one can visualize the data about affected and recovered cases throughout the entire world. Designed the features of tracking global wise and specific country level infected, recovered and death cases information and visualizing this data in various charts.

### **Automated Data Pipeline for C-Tran**

**Project Link:** [See Project](#)

**Technologies:** Python, Pandas, JSON, Kafka, PostgreSQL, GCP, Linux, MapBox

Designed Data Pipeline for automated ETL processes across millions of rows of daily Bus event data from 2 different data sources. Utilized Kafka, Pandas and PostgreSQL for asynchronous data streaming, transformation and data loading. MapBox was utilized for data analysis and visualization based on bus route, geographic region and time of the day.

### **Database Benchmarking Project**

**Project Link:** [See Project](#)

**Database:** PostgreSQL

**Technologies:** Python

Generated data based on the Wisconsin benchmark specification. The data is generated using a script written in python language. Created clustered and non-clustered indexes on an attribute. Made the Benchmark scalable by manipulating the string attributes.

### **N-Puzzle Implementation**

**Project Link:** [See Project](#)

**Technologies:** Python

Implemented A\* and BFS algorithm for 8-puzzle and 15-puzzle problems.

### **Handwritten Digit Recognition**

**Project Link:** [See Project](#)

**Technologies:** Python

Implemented a Multilayer Perceptron to recognize handwritten digits in the MNIST dataset. Obtained 94-98% accuracy on the test set. Neural network was trained on a dataset of 60,000 images for 50 epochs using backpropagation with stochastic gradient. Sigmoid function is used to determine activation of each hidden/output neuron.

### **Work Experience:**

#### **Pega Senior System Architect (Jun 2017 - May 2018)**

Anthem Inc, Norfolk, Virginia.

Designed and developed Compass, a Web application built on CPM Framework for health care CSR's. This application helps the Customer Care Service Representatives to handle the calls for Anthem Members and Providers of both Medicare and Medicaid programs.

#### **Pega Senior System Architect (Feb 2017 - Jun 2017)**

Verizon Wireless, Alpharetta, Atlanta.

Designed and developed Case Management (Customer Service for Communications Application) for Verizon client. Worked on billing services by integrating pega 7 applications using REST service.

**Software Engineer (Jan 2012 - Jun 2014)**

Virtusa, Hyderabad, India.

Developed online application for AIG client OneClaim (insurance claim framework application).

Integrated with other applications using service-oriented architecture.