

# NISHNA REDDY ALETI

(971)716-3070 | Portland, OR | [aleti@pdx.edu](mailto:aleti@pdx.edu) | <https://nishnareddy1.github.io/>  
<https://github.com/nishnareddy1> | <https://www.linkedin.com/in/nishna-reddy/>

---

## **EDUCATION**

### **Portland State University, Portland, Oregon.**

*Sept 2019-Mar 2021*

*Master's in Computer Science, GPA: 4/4*

**Coursework:** Machine Learning, Internet and Cloud Systems, Software Engineering, Algorithm Design and Analysis, Full-Stack Web Development, Cloud and Cluster Data Management, Database Management System, Human Computer Interaction, Internetworking Protocols.

### **Mahindra Ecole Centrale, Hyderabad, India**

*Jul 2015-May 2019*

*Bachelor of Technology in Computer Science and Engineering*

**Coursework:** Data Structures and Algorithms, Cloud Computing, Artificial Intelligence, Operating Systems, Object Oriented Analysis and Design, Database Management Systems, Introduction to Computer Security, Object Oriented Programming.

---

## **TECHNICAL SKILLS**

- **Programming Languages:** Python, Java.
  - **Web Technologies:** HTML5, CSS, JavaScript, jQuery, AJAX, Node JS, React, Redux, Flask, Django.
  - **Operating Systems:** Windows, Linux.
  - **Databases:** MySQL, PostgreSQL, MongoDB, Microsoft SQL Server.
  - **Tools:** Google Cloud Platform, Amazon Web Services, Dash, Visual Studio, Git, IntelliJ, PyCharm.
- 

## **EXPERIENCES**

### **Graduate Assistant, Portland State University** (Django, JavaScript, AJAX, jQuery, HTML & CSS) *Feb 2020-Present*

- Designing and developing custom web applications for academic departments and affiliated organizations.
- Building web apps using Django framework where python is used for backend and JavaScript, AJAX, jQuery, HTML and CSS for front-end.
- Managing the workflow and handling the deadlines.

### **Software Development Intern, IT Logix, India** (Python, Microsoft SQL Server)

*Jan 2019-Mar 2019*

- Analyzed the data from all the NFL team's Twitter accounts using Microsoft SQL Server, Dash framework in Python, for a client National Football League.
- Designed and implemented analytical web application for the client to build strategies to increase followers on twitter by visually analyzing number of followers, likes and comments for every 5 minutes.

### **Software Development and Testing Intern, IBI Group, India** (Python)

*May 2018-July 2018*

- Analyzed the sentiment of the comments on all the posts for a Facebook public page called "Hyderabad Traffic Police".
  - Used TextBlob, Tensorflow, LSTM, NLP in Python for the sentiment analysis.
  - Increased passenger satisfaction by 20.8% by providing recommendations concerning optimization of traffic, routes and scheduling based on analysis.
- 

## **ACADEMIC PROJECTS**

### **Health Application** (Python, Flask, JavaScript, jQuery, AJAX, HTML and CSS)

*Mar 2020-June 2020*

- Developed and deployed a full stack web Application called [Live+](#) which is a one stop destination for health.
- Used python Flask as a backend framework and JavaScript, AJAX, jQuery, Bootstrap, HTML & CSS for front-end.
- Extracted data from the API's called APImedic, Google maps and Spoonacular.

### **Internet Chat Relay Application** (Java)

*Mar 2020-June 2020*

- Implemented multi-client chat application using socket programming in Java.
- Clients are connected to the server and perform actions like group chat, private chat, leaving and joining a room.

### **MIT Battlecode** (Java, JUNIT)

*Jan 2020-Mar 2020*

- This involved coming up with a strategy using various concepts like pathfinding algorithms, network communications in Java to play against an AI player.
- Led daily Agile Scrum meetings and managed project goals using Slack and Trello.
- Written in Java programming language and executed unit test cases by using JUNIT for accuracy of the code.

### **Stock Prediction** (Python)

*Sept 2019-Dec 2020*

- Predicted the next 30 days stock market value of Google based on historical data in Python.
- Leveraged models like Long Short-Term Memory, Support Vector Regression and linear regression.
- Proved that Long Short-Term Memory model could correctly predict the data with the least mean absolute error of 0.025.

### **GIPHY Face Recognition** (Flask, Python, Google Cloud Platform)

*Sept 2019-Dec 2020*

- Developed a model view controller application using Flask framework and deployed using Google Compute Engine.
- Populated a GIF based on a keyword and detect the sentiment of the face in the GIF using Google cloud vision API and Giphy API.

### **Database Management** (PostgreSQL)

*Sept 2019-Dec 2020*

- Populated New York City Airbnb's raw data into PostgreSQL to easily find an Airbnb in NYC.
- Designed SQL queries to analyze all needed information to find out more about hosts, geographical availability, necessary metrics to make predictions and draw conclusions.