

# SAI SIVA SRIRAM VITHALA

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## Education

### Stony Brook University

*Master of Science in Computer Science*

**Feb, 2021 – May, 2022**

*Stony Brook, New York*

**Relevant Coursework:** Data Structures and Algorithms, Prob and Stats for Data Science, Intro to Computer Vision, Data Mining, Natural Language Processing, Distributed Systems

### G.V.P. College of Engineering

*Bachelor of Technology in Electronics and Communications Engineering*

**Sep, 2014 – May, 2018**

*Visakhapatnam, India*

## Technical Skills

**Languages :** Python, C, HTML, CSS, JavaScript, jQuery, SQL, .Net (Dot Net), Angular JS, Angular  
**Tools :** VS Code, Eclipse, Jira, MySQL, SVN, AEM, GIT, MATLAB  
**Frameworks :** OpenCV, Pytorch, Numpy  
**Soft Skills :** Leadership, Event Management, Writing, Public Speaking

## Work Experience

### Vodafone Mobile Application Development

*System Engineer*

**Jun, 2018 – Jul, 2019**

*TCS, Chennai, India*

- **Lite Application :** Built a lite application, from scratch, without any compromises using AngularJS, SVN, HTML & CSS and using the preexisting services and reduced the business budget.
- **User-Interface :** Optimized UI for better user experience by reducing the load time of multiple pages.
- **API Integration :** Integrated recharge and plan validity reminders using banking APIs. Developed user-friendly features like image caching to increase application responsiveness.
- **Deployment :** Implemented a service link between UI and AEM for low-latency real time exchange of data and made Application Deployment much easier.

### Software Developer Intern

*B.S.N.L.*

**May, 2017 – Aug, 2017**

*Visakhapatnam, India*

- Developed the front end for Line maintenance systems.
- Learned about signal and data identification along with differentiation through Database Management.
- Collaborated with team members in Data Load distribution and Data Transmission speed maintenance.

## Projects

### Attuned - Voice&Speech coaching iOS App | *In Collaboration with Cornell University*

**Aug, 2021 - Present**

- Recreating the iOS application into a Hybrid Application.
- Working on optimizing the User Experience by making it more responsive and reducing clusters.

### Scene Recognition Using CNN - CV | *Python, Pytorch, Google Colab, OpenCV*

**April, 2021**

- Defined a network architecture and added jittering, normalization, and regularization to increase recognition accuracy.
- Fine-tuned a pre-trained AlexNet deep network and increased the accuracy from 65% to about 85%.

### Statistical Analysis of Impact of COVID on SF Crimes: | *Python, Pytorch, Google Colab, OpenCV*

**Mar, 2021**

- Predicted number of deaths, confirmed cases, San Francisco crimes statistics, by applying Pearson correlation, ChiSquare AR, EWMA time series models and evaluated the results through Hypothesis Testing and MAPE, MSE metrics
- Proposed and tested 5 hypotheses using KS, Wald's & Permutation tests.

### Patient Management System | *.Net, HTML, CSS, SQL*

**Jul, 2018**

- Designed a system that helps Hospitals reduce the cluster of patients and prioritize them based on In-Patient and Out-Patient Categories and emergencies.

## Leadership / Achievements

### Achievements

- Attained E2 level competencies in AngularJS, HTML5, CSS3 and jQuery. October, 2018
- Second Runner's Up at TCS EngiNx Engineering Project Innovation Content. September, 2017

### President, Hearts of Humanity Club

**June, 2016 - May, 2018**

- Led the annual beach cleaning program to success in raising awareness of coastal cleanliness.
- Organized many events for helping the 100's of kids in need for food and education.