Chinmay Kale

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EDUCATION

MS in Computer Science, Rochester Institute of Technology | Rochester, NY Aug. 2018 – Dec. 2020
Current GPA : 3.7

BS in Computer Science, Pune University | Pune, India Aug. 2012 – May 2016
GPA : 3.5

EXPERIENCE

Software Engineer at Persistent Systems | *Pune, India* July 2016 – July 2018
- Developed and maintained a Python framework called Mario which creates secure patches from software package updates for Linux Based Workstations of an Organization using Bigfix as part of the core team.
- Developed a web scraping module for automatically downloading Linux updates from its Errata pages using beautiful soup.
- Tested these Bigfix Linux patches on different Linux Based Workstations like SuSe, CentOS, Ubuntu, RedHat.
- Managed the Linux Workstations required for testing the BigFix Linux patches.
- Overlooked the Github repo and Jenkins Build Issues.
- Overlooked and Handled some hard L3 support issues for clients using our Bigfix security patches.
- This project was developed and managed using Python, Git, Jenkins, Shell, Bigfix Action Script.

Research Assistant at Rochester Institute of Technology | *Rochester, NY* May. 2019 – Aug. 2019
- Developed "Program Comprehension Experiment Runner" application to gather data on the reader's eye movement while he is reading the source code by tracking the reader's gaze in while reading languages in different paradigms: Object Oriented(OO) and Data Context Interaction(DCI) paradigm.
- Worked on aggregation of data from the eye tracker data and data from the questionnaire with the goal to understand which paradigm is easier for users to comprehend and understand.
- Developed graphical user interface for Application using Python's PyQt.
- Used TinyDB in Backend to store data gathered from Eye tracker experiment.
- Used JSON format for storing experiment configurations
- Technologies used are Python, PyQt, TinyDB.

Software Engineer Intern at Language Intelligence | *Rochester, NY* May 2019 – July 2019
- Designed and implemented workflow process to automate the manual process using C#, .NET framework to allow efficient information flow and retrieval and manage data for our own organization.
- Developed microservices using REST API to enable clients of Language Intelligence to manage their translation projects on our server using C# .NET.
- Used PostGRE SQL for storing the data gathered using microservices.
- Worked on Slack API and Discord API, auto emails and SMSes as part of Communication microservices.
- This project was developed and managed using C#, MSSQL, JSON and XML, SVN, POSTGRESQL.

PROJECTS

Handwritten Mathematical Expressions Recognizer | *Python, Pandas, Scikit-learn, XML, Git*
- Developed a Mathematical Expression Recognizer for reading and parsing handwritten math expressions.
- Performed XML parsing to extract data from xml dataset(CROHME) using beautiful soup.
- Developed code for segmentation, character classification and then parsing of mathematical expression as a whole by finding relationships between individual symbols in expression using Random Forest Classifier with scikit-learn
- Developed code for geometrical and temporal feature extraction using Parzen shape context and Convex Hulls using Scipy
- Compared the resulting mathematical expression with ground truth from the dataset(CROHME dataset) to get the accuracy of the recognizer.
- Git Link : https://github.com/KaleChinmay/Handwritten_Math_Expression_Recognition

Election Prediction using Sentiment Analysis on Twitter (Hackathon Event) | *Python, Flask, JavaScript, HTML, Bootstrap*
- Designed and developed an application which performed sentiment analysis on user tweets and used that to predict US election results. This was for a Persistent coding event during the US 2016 election campaign.
- Developed a web server using Python Flask with MongoDb database in the Back-end.
- Designed the web page for the server using HTML, Javascript and Bootstrap with Flask. Displayed the predicted election results on web pages.
- Used Twitter API to extract live tweets from twitter and store in MongoDB.

- Performed feature extraction using Bag of words model and used Naive Bayes to classify positive and negative tweets for presidential candidates and predict the result using scikit-learn.

Analytics on Sugar CRM using Microsoft Azure | *C#, PHP, Azure, MSSQL, RESTAPI, HTML, JavaScript and Bootstrap.*
- Designed and Developed application that analyzes the data in SugarCRM account, predicts whether the product in consideration will be sold or not.
- Developed web server with IIS on Azure using C# .NET with MSSQL at the Backend.
- Developed a module interacting with CRM REST API using PHP and then used C# for storing the data on Azure Cloud(SQL).
- Used Single Sign On for SugarCRM and Our Server using Azure Active Directory.
- Designed web pages for web server using PHP, HTML, JavaScript and Bootstrap.
- Trained the CRM data using Decision Tree algorithm using Microsoft Azure's machine learning functionality using C#.

TECHNICAL SKILLS

Languages: Python, C#, Java, JavaScript, SQL, MongoDb, PHP, HTML5, R, C, C++, CSS, MSSQL
Frameworks: React, NodeJS, Flask, JQuery, ASP.NET, Entity Framework
Developer Tools: Git, SVN, Jenkins, TravisCI, Azure, Jupyter, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib, Beautiful Soup, Tensorflow, Keras, Scikit-Learn, PyQt
Operating Systems: Ubuntu, Windows, SuSE, Redhat, CentOS.