Chirag Agarwal

Highly skilled and experienced software developer, data analyst and process automator.

Technical Skills: Java, Python, React, Redux, C++, JavaScript, PHP, SQL, Spark, .NET, Angular

EDUCATION

Viterbi School of Engineering, University of Southern California

Los Angeles, USA January 2019 - December 2020

Masters of Science in Computer Science, Current CGPA: 3.9/4.0

Manipal Institute of Technology

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.81/10.0

Manipal, India July 2011 - June 2015

Work Experience

Amazon.com, Inc.

Seattle, USA

Software Development Engineer Intern

May 2020 - August 2020

- o Multi-Item Concessions Support: Added backend concessions support for multi-item Amazon orders for the Contact Us ChatBot. Exceeded the planned scope by supporting Fresh orders, damaged items and missing items in shipment scenarios.
- ChatBot Multi-Item Picker: Developed a new item picker using React and Redux for customers to select the items and their quantities for concession on the chat bot, resulting in an estimated impact of 60,000 agent contact reduction annually.

USC Norris Comprehensive Cancer Center

Los Angeles, USA

Student Software Developer

May 2019 - May 2020

• Publications Portal: Developed a cancer publications portal for Norris, Stanford and 8 other cancer centers across USA. Bangalore, India

Citrix R&D

Software Engineer 2, Software Engineer 1, Software Engineering Intern

January 2015 - November 2018

- o Product Usage Analytics: Developed a complete analytics pipeline and service using Python and Tableau to get impact areas and performance trends using customer usage data from various sources including Citrix's CEIP database, Google Analytics & App stores, helping the team take data-driven business decisions causing an estimated saving of over \$100,000.
- Video Library: Led a team of 4 and collaborated with 3 cross-functional teams to create the Citrix-wide video library.
- Customer Case Analytics: Implemented a framework on Python to fetch, filter and analyze Salesforce customer support cases. Categorized cases using text classification for further analysis and triage.
- Lingua: Developed the Citrix Terminology Portal and REST service using .NET and C# to provide all UI string translations with real-time translation status. Helped different teams to get updates about translation details and progress.
- o Citrix Documentation Feedback: Developed end to end feedback gathering and analytics system for docs.citrix.com
- Lean Innovation Challenge 2018: Selected in top 3 from 98 ideas submitted and founded an Internal Startup. The idea was regarding a new product involving workflow automation to improve employee productivity.
- Voice of Customer Analysis: Implemented a sentiment analytics based system to automate data fetching from App stores & Twitter and analyze textual data of reviews and comments utilizing NLTK on Python to aid business decisions.
- Lean Innovation Challenge 2017: Selected in top 5 out of 150 ideas submitted across Bangalore. The idea was regarding a secure enterprise offline file sharing service which got patented and highly appreciated by Senior Executives.
- o Athena and Results Manager: Created a Dashboard and Web Service to track & analyze automation results for all Citrix products. Built parsers for different types of logs generated, and REST service for database interactions.

Projects

- Brain to Computer Interface: Created a BCI prototype to control IoT devices and computers to help people with paralysis.
- Weather applications: Developed a real time web app with Angular and Node.js and an Android app CSCI-571 project.
- Recommender systems: Implemented Model, User & Item based collaborative filtering recommender systems on Yelp data set with Spark on Python and Scala during the course on Data Mining - INF-553
- Stock Market Prediction: Implemented a Sentiment Analysis model for predicting prices of Oil Securities using Big Data Analytics techniques and MapReduce on large amounts of raw unstructured data, fetched from Twitter and News feeds.

Achievements and Awards

- F8 2019 Hackathon: Invited to the F8 hackathon and conference by Facebook. Contributed to development of an Augmented Reality based education platform on Spark AR Studio and React and presented it to the CEO, Mark Zuckerburg.
- HackSC: Won the Facebook award for BSMART, an app to control IoT devices and Tesla cars using Augmented Reality.
- 2 Spot Awards: Received two spot awards from Citrix for projects Product Usage Analytics and Citrix Video Library.
- 3 Citrix Quality Awards: Received recognition awards for Customer Case Analytics, Product Usage Analytics and Lingua.

Patents

- Authentication for secure file sharing: U.S. Patent Application filed in April 2019. Application Number: 16/371,406.
- Secure offline streaming of content: U.S. Patent Application filed in December 2018. Application Number: 16/223,475.
- Cloud authenticated offline file sharing: U.S. Patent Application filed in March 2018. Application Number: 15/924,771.

Email: chiragag@usc.edu Phone: +1(213)285-3941Web: chiragag.github.io