Chirag Agarwal

Highly skilled and experienced software developer, data analyst and process automator. Technical Skills: C#, Java, Python, C++, JavaScript, SQL, Spark, .NET, Tableau, Git

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EDUCATION

Viterbi School of Engineering, University of Southern California

Los Angeles, USA

Masters of Science in Computer Science, Current CGPA: 3.90/4.0

January 2019 - December 2020

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

USC Norris Comprehensive Cancer Center

Los Angeles, USA

Student Software Developer

May 2019 - Present

- Publications Portal: Contributed to development of a portal to analyze and maintain cancer publications using ASP.NET and SQL Server. Currently being used by Stanford, Yale and 8 other cancer centers across the USA.
- ORIEN USC Website: Developed responsive website for Oncology Research Information Exchange Network team at USC.

Citrix R&D Software Engineer 2, Software Engineer 1, Software Engineering Intern

Bangalore, India January 2015 - November 2018

- o Product Usage Analytics: Developed an analytics 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 store, etc helping the Product Management take crucial data-driven business decisions.
- o Citrix Video Library: Led a team of 4 and collaborated with 3 cross-functional teams to create the Citrix wide video library leveraging Brightcove and analytics APIs. Responsible for organizing all video files to ensure the standards are met.
- o 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.
- o Lexica: Developed a platform using MVC, .NET, C# and Perl to improve product UI quality by detecting spell errors and terminology deviations occurring in all UI strings with automatic logging of bugs.
- Lingua: Developed the Citrix Terminology Portal and Web Service using MVC, .NET and C# to provide all UI string translations with real-time translation status. Helped different teams 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.
- o DevOps Portal: Helped in cloud transition by creating an interface for improving team infrastructure collaboration.
- 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 APIs for database interactions.

PROJECTS

- Recommender systems: Implemented Model, User & Item based collaborative filtering recommender systems on the Yelp data set with Spark on Python and Scala.
- Community detection: Implemented the Girvan-Newman algorithm to detect Yelp user communities in graphs.
- Urban Sound Classification: Worked on a deep learning model to identify various sources of sounds in an input audio file.
- Stock Market Prediction: Implemented a Sentiment Analysis model for predicting prices of Oil Securities using Big Data Analytics and Map-Reduce on large amounts of raw unstructured data from Twitter and News feeds.

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.

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 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.