

Utkarsh Jain

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Education

BACHELOR OF SCIENCE | PURDUE UNIVERSITY EXPECTED DEC 2019

- Major in Computer Science with a focus in Machine Learning.
- Coursework: Database Design, Advanced Algorithms, Data Mining, Systems Programming, Data Structures, OOP, Linear Algebra, Discrete Math

Experience

SOFTWARE ENGINEERING INTERN | SALESFORCE MAY 2019 - AUG 2019

- Worked on the next version of search platform for Salesforce Commerce Cloud.
- Shipped a REST API for clients to upload product catalogs to S3 buckets using Java and RAML.
- Built catalog ingestion pipeline using SQS and Springboot to extract and validate uploaded catalog. Product hierarchy is then stored in DynamoDB and product attributes in Elastic to make search efficient and cost effective.

UNDERGRAD TEACHING ASSISTANT | PURDUE UNIVERSITY JAN 2018 - PRESENT

- CS 381 - Analysis of Algorithms. Designing projects and HWs during the semester to teach students analysis of Algorithms.
- CS 251 - Data Structures and Algorithms. Designing projects and labs during the semester to teach students DS and A.
- CS 182 - Foundation of CS. Teaching analysis and design of algos, recurrences, combinatorics, finite state machines, automata.
- CS 193 - Tools. Teaching labs to help students learn how to navigate the terminal, use vim, git and other core concepts.

SOFTWARE DEVELOPER INTERN | USAA MAY 2018 - AUG 2018

- Worked on health monitoring system for Data Analytics Insights Platform for USAA.
- Developed PoC using Apache Flink and Apache Kafka to use compute metrics from beat agents and NiFi modules to stream for data processing and adding it to Hive.
- Created routes to predict failures and outages using compute metrics of associated systems.

SOFTWARE DEVELOPER INTERN | NATIONAL SCIENCE FOUNDATION JUN - JUL 2017

- Worked on algorithms to calculate the percentage of graph revealed as shortest path is found between random pairs of nodes across a graph.
- Used C++ and the SNAP library.

SOFTWARE TESTING INTERN | APPNIQUE.INC JUN - AUG 2016

- Tested ad-target algorithms across different Facebook profiles and used Assembla for bug tracking.
- Automated testing of the Appnique website across different browsers using Selenium.

Projects

CO-FOUNDER AND DEVELOPER | CRYPTOLEAGUE JAN 2018

- A platform which allows crypto enthusiasts to come together and practice their investment techniques by participating in leagues and win in-game tokens along the way.
- The site has over 50 users and received angel funding from Purdue Foundry.
- Worked on front-end development using Angular 5.0 and backend in Node.JS with MongoDB.

MARCOPOLO (NODE.JS)

- A Facebook chat bot which helps the user shop smarter and faster by automating the process of looking for the best product and contacting the seller.
- Scrapes Craigslist for finding the item the user is looking for, and auto bargain with the seller to find the best possible price for the buyer. This interaction is done over SMS.

Technical Skills

- Advanced: Java, C, C++, JavaScript, HTML, Android App Dev
- Frameworks: Springboot, Angular.JS, Node.JS, Apache Flink, Apache NiFi, Apache Kafka, Hadoop, Hive, MySQL/Azure SQL