Arushee Agrawal

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EDUCATION

Washington University in St. Louis - May 2020 | BS, Computer Science & Minor, Design

Antoinette Frances Dames Awardee | Dean's List (Aug 2016 - Now)

GPA: 4.0

Upcoming Coursework: Computer Vision (Grad), Video Game Prog., Cloud Computing with Big Data Applications Completed Coursework: Rapid Prototyping & Creative Programming, Object-Oriented Software Dev Lab, Linear Algebra, Probability & Stats, Data Structures & Algorithms, Intro to Parallel Programming, Discrete Math, Interaction Design

WORK EXPERIENCE

Mastercard Software Engineering Intern

June - Aug '18

Implemented a process that aids in Continuous Integration & Delivery of software. Built an internally-facing application & log-based visualization using D3.js that visualizes the same processes real-time on Mastercard microservice applications deployed on Pivotal Cloud Foundry. Also worked on debugging Jenkins pipelines.

Engineering Test Kitchen – Prattle Analytics Part-time Intern

Jan - May '18

Worked in a team of 5 students with start-up, Prattle Analytics, that assesses market movements through sentiment analysis. Learned & used computing tools like AWS Lambda to assess whether or not the company's data processing could be made server-less, by building a proof of concept.

CSE247: Data Structures & Algorithms Undergraduate Teaching Assistant

Jan '18 Onward

Implementing important algorithms including shortest path & encryption, & data structures including min-heaps & graphs. Analyzing runtime complexity to discuss pros & cons of problem solving techniques.

CSE231: Intro to Parallel & Concurrent Programming Undergraduate Teaching Assistant
Discussing parallel & concurrent programming structures, using the Java Concurrent Library, and the benefits
of parallel programming. Explaining several sequential algorithms, & devising ways to parallelize them.

Jan - May '18

SKILLS

Languages/Frameworks: Java, C++, MySQL, HTML, CSS, Javascript (React, React Native, D3), PHP, Git, Python Software: AWS Lambda, AWS EC2, MongoDB, Hadoop, Cloud Foundry, Photoshop, Illustrator, Maya, Sketch, Unity

Selected Projects

Rightover React native mobile application to help restaurants sell leftover food.

Jun '18 Onward

- Worked on connecting to the Firebase database to load restaurant details, locations for maps, & catalogs.
- Building an interactive React Native template for restaurant catalogs.

Digital Dashboard A digital desktop Node application with to-do lists, notes and doodle spaces

May '18

- Express App built with ReactJS on Node, with storage on MongoDB (MERN stack).
- To-do list, digital post-its, & a doodle pad, and Unsplash API integration for background images.

Digital Calendar Digital Calendar Web App where users can add, edit and delete events

March '18

- Built with pure Javascript, JQuery, PHP and a MySQL database.
- Allows creation, editing and deletion of events on a users calendar.

Map-Reduce Framework Developed a Map-Reduce Framework using existing concurrent structures in Java.

Sept - Oct '17

- Can be used for word counting and finding mutuals in several large text data sets
- Generic Mapper and Reducer classes to allow processing of any kind of data

MuSyC.Mi Music-to-Color Synesthesia Simulator to make music accessible to the hearing-impaired.

Nov '16

- Top 10 at Hacking Arts 2016 at MIT
- Contribution: Worked on the implementation of the sound filter that helped reduce perception of noise, as well as the algorithm that assigns colors to different kinds of sounds.

OTHER ACHIEVEMENTS & ACTIVITIES

Anita Borg Scholar, Grace Hopper Conference '18

2018 July '18

Mastercard Intern Innovation Challenge Winner, Awarded to best technically feasible & commercially viable solution proposed by a team of interns to solve a target personality's problems with digital payments, that can be implemented by Mastercard in the future

April '18

Antoinette Frances Dames Award Recipient, Awarded to only 11 engineering students at WUSTL Girls Who Code, Wash U – Curriculum Chair, Teaching girls in local schools programming in a project-oriented manner, to attempt bridging the gender gap in the tech community. Curriculum Chair

Aug '17 Onward

specifically is in charge of creating all training materials for the facilitators/teachers and the students

Jan '17 Onward

Women in Computer Science, Wash U – Member