YUYING ZHANG

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Education

University of Virginia, Charlottesville, VA *B.A. Computer Science, B.A. Economics*, Dec. 2020
Honors: Dee Family Global Scholarship, Chinese National Scholarship, DE Shaw Nexus Fellow (60 out of 2000)
Activities: Computer Architecture teaching assistant, Commerce Research Assistant

Technical Skills

Database: Excel VBA, SQL Server, MySQL, Access |**Programming:** Python, R, Java, C++, JavaScript, HTML
Data Visualization: PowerBI |**Statistical Analysis:** Hypothesis Testing
Machine Learning: Clustering, K-Means, Regressions |**Platform:** AWS, Azure

Internship Experience

Beacon Consulting Scholarship, Consultant, Washington DC May 2020 – Aug. 2020
- Researched racial inequity in healthcare through case study suggesting access solutions to leadership
- Managed 5 engineers building from scratch a data visualization platform using python to generate sales insights

Hitachi, Cloud Engineer Intern, Herndon, VA May 2019 – Aug. 2019
- Created chatbot for compliance information and document gathering with Azure Bot Framework (JavaScript) and Jenkins which decreased back-and-forth communication time by 50%
- Implemented backend for unified storage with Azure Functions for multiple source entries in Microsoft Flows
- Worked with express framework, HTTP request with custom Callback, OIDC authentication to set up identity
- Designed digital compliance product requirements to reduce redundancy and guide future development which saved manager 40 hours of work and was presented before VP & CEO

Willow Tree, Software Engineer Intern, Charlottesville, VA Sept. 2018 – May 2019
- Developed chatbots integrated with common messaging platforms similarly to Microsoft Team and Slack
- Decreased IT support call by 60% using Google's DialogFlow bot frameworks and webhook in Javascript
- Implemented a workplace smart system which handles meeting room booking requests using ReactJS
- Designed a Chrome Extension automating cross-page deadline collection with built-in Google Calendar trigger

COMPUTING PROJECTS

Track Corona Live, Co-Founder – A live tracking system of covid-19 case globally https://www.trackcorona.live/
- Scraped 50 GB city-level precise data and built backend for sorting news and research article
- Ranked Top Five in Google search engine through consumer-friendly features and new agency communications

UVA Women Entrepreneurship, Co-founder – a community connecting next-gen leaders https://www.uvawe.com/
- Hosted 14 weekly meetup curriculums and mentored 30 young females UVA students on career development, campus resources, talent sourcing

Computer Vision: Colorize Monotone Image using K-nearest Neighbors Algorithms Dec. 2019
- Reached 87% accuracy and 2,000 downloads with user-oriented UI and Pytorch package

Cloud Computing: Large Scale Human Mobility Data for Safe Evacuation Dec. 2019
- A North Carolina Government sponsored project on evacuation planning during hurricane using 150 GB data
- Led project as the only undergraduate in a PhD class to bring in multidisciplinary perspective

AskWarren – A real-time stock price prediction web app Oct. 2018
- Predicted next day closing stock prices using real-time sentimental analysis package in Python
- Measured accuracy of results with regression analysis on historical stock prices

Bearmaps – An interactive navigation web app for town of Berkeley Aug. 2018
- Developed the program to support address search, zoom in and out, and shortest route search
- Generated graphs and routes on front end through using tree traversal and A* search algorithms

Gitlet – A lightweight file version-control system similar to Git July 2018
- Developed a version-control system with Java which can backup and restore files, view history, and merge changes
- Stored data by applying abstract data structure such as lists, stacks, queues, trees, heaps, hash tables and graphs