**YUYING ZHANG**

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**Education**

**University of Virginia,** Charlottesville, VA *B.A. Computer Science, B.A. Economics*, Dec. 2021

*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, Tableau|**Statistics Analysis:** Hypothesis Testing, A/B Testing, Backtesting

**Machine Learning:** Clustering, K-Means, Regressions |**Platform:** AWS, Azure

**Internship Experience**

**Atomic Revenue, Product Manager**, Washington DC May 2020 – Aug. 2020

* Advised a marketing technology startup on the launch of a new B2B analytics product that improved lead generations by 30%; worked with the CEO as product manager from inception through implementation

**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**](https://d.docs.live.net/d7795f8d27dd9fd8/Desktop/COMM/trackcorona.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**](https://www.facebook.com/uvawe/?__tn__=%2Cd%2CP-R&eid=ARDajGA2uNHxHVP1ZWIcvQNsLPWpmfbySeQyhM812i0pRhv1CT59zTkcjaIRyUxwvIWDiUyU09p-9Lan)**, Co-founder** – a community connecting next-gen leaders <https://www.uvawe.com/>

* Founded and led a 40-member extracurricular club to raise awareness for female-led startups and increase their rate of partnerships with venture capital firms

**Computer Vision:** [**Colorize Monotone Image using K-nearest Neighbors Algorithms**](https://drive.google.com/file/d/1qptJf4a2V9AouTJ6NurhU0XVsX6fopQ5/view?usp=sharing) 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**](https://drive.google.com/file/d/1YXjiNjWxgWW2_LUPrdLUSEgTK7vKxcER/view?usp=sharing) 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