AUSTIN ZHANG

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EDUCATION

Dartmouth College, Hanover, NH   **June 2022**
Bachelor of Arts, Major in Computer Science; Major in Mathematics   **Cumulative GPA: 3.83 Major GPA: 3.93**
Relevant Coursework: Algorithms, Software Design and Implementation, Bayesian Inference, Probability, Functional Programming, Object-Oriented Programming, Computational Methods, Financial Markets, Discrete Mathematics, Linear Algebra

Columbus Academy, Gahanna, OH   **June 2018**
Cum Laude Society, National Merit Scholar, ACT: 36, SAT 1580, SAT Math 2: 800, SAT Physics: 800   **GPA 4.31**

RELEVANT EXPERIENCE

Share Local Media (SLM), New York City, NY   **Jun 2019-Aug 2019**
Software Engineering Intern
- Designed, built, and deployed Shopify application for automated mailing based on customizable triggers with Node and React.
- Currently in use by customers to process and send over 1000 mailing events daily to the SLM Poplar API mail platform.

Dartmouth College, Hanover, NH   **Sep 2019-Present**
Research Assistant
- Conducted economic research with Jonathan Zinman on the over-assessment of residential property value by the city of Detroit.
- Designed and implemented a heavily optimized, distributed web-scraping program for gathering information on over 300,000 property parcels through over 1,000,000 individual webpages, overall putting the project's progress ahead by three weeks.
- Wrote distributed software designed for Dartmouth's HPC cluster to parse, filter, and analyze raw scraped data.
- Carried out miscellaneous data processing and modeling tasks to generate a custom property value model for the city of Detroit.
- Currently assisting a non-profit in building an automated appeal pipeline with Flask, React, and Selenium to help low-income families access fair property tax rates.

Dartride, Hanover, NH   **Oct 2018-Present**
Co-founder and Lead Software Developer
- Received $15,000 in funding to complete the project with further funding for maintenance and upkeep.
- Pitched, designed, and implemented a campus ridesharing application working with Dartmouth IT, police, and two teammates.
- Built backend for processing and sending text messages, logging, routing, and communicating with driver and user web applications with AWS Lambda, DynamoDB, Twilio, and OSRM. Later ported the program to use Node and PostgreSQL.
- Initiated early stages of testing with campus security. The program has been shown to more than double efficiency, dropping average ride times from over ten minutes to less than four.

Dartmouth Entrepreneurship Network, Hanover, NH   **Oct 2018-Present**
Startup Grant Recipient
- Created an Amazon Alexa based stock trading and information application on Amazon AWS with two teammates.
- Won first place in Dartmouth Hackathon and received $3000 in grants for furthering a future startup idea.

Dartmouth College, Hanover, NH   **Dec 2018-Mar 2020**
Teaching Assistant and Tutor Computer Science 10
- Organized and led office hours and study sessions for a class of 100 students using a personalized approach.
- Taught 10-person recitation sections for programming drills and problem set help.
- Collaborated with other TAs and the professor to grade problem sets, exams, and assignments.

GFS Chemicals, Hilliard, OH
Consultant   **Aug 2019-Present**
- Provide ongoing technical support for data management and integration with Microsoft Dynamics AX
Logistics Intern   **Jun 2018-Aug 2018**
- Designed and wrote a bin packing and shipping optimization algorithm for low volume chemical shipments in Python. The algorithm has been deployed to production and can pack as efficiently as workers with 20+ years of experience and can process 93% of all orders.
- Collaborated with an outside consultant to port algorithm into Microsoft Dynamics AX ERP system to allow for online shipment pricing and additional customer service tools.

SKILLS AND INTERESTS

Computer Languages: Fluent in Java, Python, Javascript. Experienced with C#, C/C++, HTML, CSS, VBA, Android, Haskell
Software Frameworks: AWS, Node, React, DynamoDB, Anaconda, Dynamics AX, Flask, Selenium, PostgreSQL, MongoDB, Koa
Tools: Visual Studio Code, Bash, Android Studio, Excel, GitHub, LaTeX
Design: Proficient in Solidworks. Significant experience in building and configuring electronics and computer hardware.
Clubs/Hobbies: Quant Traders Club, Dartmouth Asian Organization, bouldering, longboarding, poker, free food aficionado