

ANGELA (ZI LAN) ZHANG

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EDUCATION

Dartmouth College, Hanover, NH <i>B.A. Computer Science and Quantitative Social Science</i> Honors/Awards: Honors Roll Recipient, Recruited Division I Athlete, All-Time School Program Record Holder for Women's Golf	Expected June 2023 GPA 3.83/4.0
York House High School, Vancouver, BC Honors/Awards: 5x Honors Roll, AP Scholar with Distinction, National AP Scholar, AP International Diploma	June 2019 GPA 4.0/4.0

WORK EXPERIENCE

Amazon, Seattle, WA <i>Software Development Engineer Intern</i> <ul style="list-style-type: none">Promoted to junior-level internship after several rounds of technical and behavioral interviews, despite applying for a sophomore positionCollaborating with experienced cross-disciplinary Amazonians to conceive, design, and bring innovative products to market (project TBD) Digital Applied Learning and Innovation (DALI) Lab, Hanover, NH	June – September 2021 August 2020 - Current
<i>Software Engineer</i> <ul style="list-style-type: none">Admitted as one of the youngest members to the tech-entrepreneurial program after a rigorous selection processWorked part-time to create products for companies around the world in teams of designers, engineers, PMsMost recently a full-stack and data visualization developer for a fullstack web-based beetle outbreak prediction project (see project below) Dartmouth Academics Skill Center, Hanover, NH <i>CS Teaching Assistant & Math and CS Tutor</i> <ul style="list-style-type: none">As a TA, led weekly coding sessions for students, grading and reviewing their code and homeworkAs a tutor, helped 5 assigned peers to achieve 90%+ in Calculus and Python classes in a 1:1 settingProvided feedback to simplify complex concepts, debug, improve efficiency and decrease memory usageEstablished trust by being accessible, patient, and empathetic	April 2020 – Current

PERSONAL TECHNICAL PROJECTS (IN REVERSE CHRONOLOGICAL ORDER)

To-Do List Web App (Fullstack) https://github.com/azhang4216/to-do-list <ul style="list-style-type: none">Created using Node.js with Express.js and other JS frameworks / libraries including mongoose, body-parser, dotenv, ejs, lodashDeployed the web app with a MongoDB Atlas cloud database to Heroku	January 2021
Simon-Says Game (JS) https://github.com/azhang4216/simon-says <ul style="list-style-type: none">Made a fun, interactive, visually-and-auditorily-simulating game using JS, DOM manipulation, jQuery	January 2021
Pine Beetle Infestation Visualization and Prediction Web Tool (Fullstack) https://spbpredict.com <ul style="list-style-type: none">Built and deployed a web tool backed and funded by the US Forest ServiceVisualized southern US pine-beetle outbreak data and generated outbreak predictions in an interactive formatIntegrated designers' UI/UX research and design on client-side using React.js, Redux, and front-end JS librariesImproved prediction generation time from several minutes to seconds by rewriting the backend data pipeline using Express.js and Mongoose	September – November 2020
Amazon Product Quality Prediction Tool (ML) email me if interested in seeing code <ul style="list-style-type: none">Developed a machine learning model that predicts the quality of an Amazon grocery product with high precision and recall (F1 = 0.87)Cleaned and processed product review data using TFIDF vectorizer, normalizing, and SMOTE oversamplingTrained several classifiers using processed data, e.g. logistic regression, naive bayes, decision tree, linear SVC, k-neighbors, neural networks	September – October 2020
Adaboost Algorithm from Scratch (ML) https://github.com/azhang4216/ML-Adaboost <ul style="list-style-type: none">Wrote an Adaboost Algorithm compatible with any ML classifier from scratch, showing deep understanding of classifiersImproved F1 score by roughly 0.7 across all 3 ML classifiers tested using this Adaboost Algorithm alone	September 2020
Sudoku Backtracking Solver (Algorithms) https://github.com/azhang4216/sudoku-solver <ul style="list-style-type: none">Inspired by matrix problems, developed an efficient sudoku solving algorithm that runs at $O(n^m)$ instead of brute force $O(n \wedge n^2)$	August 2020
Personal Website (Frontend) https://github.com/azhang4216/angelazz.me <ul style="list-style-type: none">Created with HTML/CSS/JS and BootstrapSet up hosting and DNS with registered domain	April 2020, with ongoing updates
Twitter-Reddit Content Sharing Optimization (Python, API) https://github.com/azhang4216/reddit-twitter-api <ul style="list-style-type: none">Made with only introductory CS knowledge and self-study, with goal of uplifting people during shelter-in-place with memes and laughterLeveraged Reddit's effective upvote system and Twitter's accessibility for optimal content sharing through Twitter and Reddit's APIs, allowing users to tweet / source top-rated subreddit memes	April 2020
Independent Research: Divisions of Wealth at Dartmouth College (R, Statistics) https://github.com/azhang4216/divisions-of-wealth <ul style="list-style-type: none">Conducted a campus-wide independent research inspired and fascinated by the socio-economic diversity at DartmouthYielded a statistically significant yet minor result of non-wealthy appearing students appearing more friendly than wealthier counterparts	September 2019

LEADERSHIP, ATHLETICISM & CO-CURRICULAR ACTIVITIES

CS Hackathons, <i>Competitive Developer</i> <ul style="list-style-type: none">Demonstrated passion for coding through participation in several hackathon events, such as HackDavis, FemmeHacks	January 2021 - Current
Dartmouth Women's Golf, <i>Division I Student Athlete</i> <ul style="list-style-type: none">Collegiate Awards: All-Time Dartmouth Program Record Holder, WGCA All-American Scholar, Rookie of the Year, Co-MVPPre-Collegiate Awards: BC Junior Girls Champion 2019, Canadian National Future Links Champion 2017, T3 Canadian Junior Girls 2018	August 2019 – June 2020
Women in Computer Science, <i>Member</i> <ul style="list-style-type: none">Formed an active, supportive community of women in CS at Dartmouth through meetings, professor events, discussions, mentorship, etc.	September 2019 – Current
Dartmouth Agape Student Group, <i>Outreach & Event Coordination Committee</i> <ul style="list-style-type: none">Spearheaded club promotion and outreach to incoming freshmen, resulting in 20+ new freshmen membersTransformed and adapted membership events to an online format in unprecedented COVID times	September 2019 – Current