Sharon Zhang

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EDUCATION

Princeton University
Expected graduation date: June 2021
B.A., Mathematics | GPA: 3.72 / 4.0
Minor(s): Computer Science

COURSEWORK

Probability and Stochastic Systems
Algorithms and Data Structures
Computational Geometry
Cryptography
Introduction to Programming Systems
Machine Learning and Pattern Recognition
Advanced Computer Vision
Computer Graphics

EXPERIENCE

Google
Jun 2020 – Aug 2020

Software Engineering Intern
Incoming software engineering intern on the Pixel camera intelligence team, working on developing the open source ExoPlayer repository.

Williams College SMALL REU
Jun 2019 – Aug 2019

Undergraduate Researcher
Participant in the commutative algebra group alongside three other undergraduate students, advised by Professor S. Loepp. Proved new results regarding cardinalities and structures of local rings and their completions. Presented an undergraduate talk at MathFest 2019. In process of completing two papers on our results.

Tendo Technologies
Jun 2018 – Aug 2018

Business Development Intern
Participant in the Princeton University eLab Accelerator program Responsible for business model development and research in potential markets. Led design and front-end development for new company website in HTML/CSS and JavaScript. Directed and created two-minute long promotional video for presentation using Adobe After Effects.

PROJECTS

COS 426 Computer Graphics
Driver's Ed 101

Created an infinite runner driving game in which the player maneuvers a car to collect coins and avoid obstacles. Modeled collisions between active objects in the scene and the driver. Created game objects using Javascript, Three.js, and Node.js.

COS 429 Computer Vision
Video Stabilization Algorithm

Implemented the video stabilization algorithm used by YouTube's former stabilizer tool. Tested and analyzed performance on over 40+ videos. Implemented in Python, MATLAB using the OpenCV library and CVX optimization software.

COS 217 Programming Systems
Unix Shell

Created an interactive Linux shell program capable of executing internal/external commands, redirection, signal handling, and error handling. Implemented in C.

LEADERSHIP

Design Nation
Nov 2018 – May 2019

Director of Design
Led creative direction and execution in branding, marketing, and visual design of conference experience for 100+ students and executive speakers. Worked with Conference Director and Chief of Staff to establish the 2019 conference theme, "The First Touch," focusing on the influence designers have to initiate engagement.

Business Today
Jan 2018 – Jan 2019

Director of Design
Oversaw rebranding and production of *Business Today*, a bi-annual magazine distributed to over 200,000 students. Acted as liason between design, technology and content teams to launch the BT Bulletin, a weekly email newsletter. Managed a team of ten designers to produce online and print designs on a daily basis.

HONORS

5x American Invitational Mathematics Exam Qualifier, USA Junior Mathematical Olympiad Qualifier, Math Prize for Girls Honorable Mention, Math Prize for Girls Olympiad Qualifier, Moody's Mega Math Challenge Honorable Mention

SKILLS

Programming: Java, Python, C/C++, Javascript, HTML/CSS
Software: Photoshop, Illustrator, InDesign, After Effects, Blender, Microsoft Office
Languages: English, Mandarin

ACTIVITIES

Peer Tutor (2019 – present)
Entrepreneurship Club (2019 – present)
Design Nation (2018 – 2019)
Business Today Officer Board (2017 – 2019)
Math Club (2017 – present)