Vanessa Chen



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Languages -

Proficient: Java, Python, C

Working Competency:

HTML/CSS, JS, R

Familiar With: SQL, C#, MAT-

LAB

Software —

3D Design: Fusion360, Solid-

Works, AutoCAD

Data Analysis: ImageJ, Fathom Games / Robotics: Blender,

Unity, Arduino

Coursework —

Duke University

- Data Structures and Algorithms (Java)
- Computer Architecture (C)
- Intro to Data Science (R)
- Technology Commercialization Planned (2020 Fall):
- Intro to Database Systems (SQL)
- Discrete Math for CS (Scheme)

The Nueva School

- Advanced Machine Learning (Python)
- Computer Security (Python)
- Computer Internals
- Virtual Reality (C#)
- CAD for Social Good (Fusion360)

Projects / Skills

Video **Game Development:** Mario-style Rolling Ball game (Unity), VR basketball shooting hoops game (Unity: C#), Pong Brickbreaker game (processing)

Team USA Figure Skater (Jan 2007-Present): Placed 10th globally at the Junior Grand Prix, and 3-time National competitor

Education

2019 - 2023 Duke University, GPA: 3.96/4.0

Durham, NC B.S. Computer Science, Psychology (Minor), Innovation and Entrepreneur-

ship Certificate

2014 - 2019 The Nueva School, UW GPA: 3.93/4.0 San Mateo, CA

Somerville, MA

Mountain View, CA

Oklahoma City, Oklahoma

High School Diploma, Gap year 2016-17 to figure skate with Team USA.

Work Experience

Technical Internships

May 2020 —-**RetinalCare, Machine Learning Consultant**

• Use Python to create machine learning models to classify patients at high

risk for eye diseases (AMD, diabetic retinopathy)

Sunforge LLC, Web Development Intern May 2020 —-

• Independently redesign website and create interactive product selection

tool using HTML/CSS, JS, React and Next.js

GetInsured, Automation Engineering Intern Jun – Aug 2017

• Saved the company 1,000+ hours of manual testing by automating an entire software portal's UI

• Ensured the quality and stability of a newly developed portal by leading script creation using Sahi, a JavaScript-based automation testing tool

Ensured user-inputted data persisted to the backend using SQL

Other Internships

May 2020 —-**Vector Rideshare, UX Design and Campus Ambassador**

Market / pitch to assist the growth of this student-run startup across cam-

puses and improve / implement the rideshare app

Feb 2018 - Aug 2019

Stanford University, Research Intern

Stanford, CA

Durham NC

• Co-authored paper and video in JoVe, leading peer-reviewed video journal Spearheaded the creation and testing of 50+ microfluidic devices to ana-

lyze metastatic cancer cell nuclei deformation

• Independently devised molecular movement simulations to visualize exper-

imental data with Blender and MATLAB

Jul – Aug 2019 **CPrime, Product Marketing and Management Intern**

· Led campaigns to identify email marketing strategies and streamlined pro-

cess for analyzing large datasets spanning 2019 by reorganizing the campaign setup structure, removing the need for manual data collection

• Initiated a more efficient marketing analysis method by creating a customiz-

able excel template for future analysis

Teaching Experience

Jan 2020 —-**Duke University, Data Structures and Algorithms TA**

Durham, NC Co-lead weekly discussion section of 20 students and hold office hours to

help students work through projects/assignments

· Concurrently take computer science education research course to better

teach CS and help students retain knowledge

Aug 2019 —-**Duke University, CoLab Studio TA**

Durham, NC

• Assist 30+ students, faculty, and staff per week with 3D printing, laser cutting, electronics, and other fabrication tools in the creative maker space

• Repair and maintain 40+ 3D printers per week; recalibrating, unclogging, inserting new material, fixing camera issues

Leadership

Sept 2019 —-**Duke Sheroes, Co-President**

• Coordinated with industry professionals and Sheroes executive board to plan and organize events for women in STEM

Sept 2019 —-

Duke Impact Investing Group, Investment Analyst

• Work on a team of 3 analysts to identify promising environmentally-focused startups, to provide seed funding from our Duke Endowment of \$100,000