Vanessa Chen

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Languages ———

Proficient: Java, Python, C

Working Competency:

HTML/CSS, JS, R

Familiar With: SQL, C#, MATLAB

Software ———

3D Design: Fusion360, SolidWorks, 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 Entrepreneurship Certificate

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

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

Work Experience

Technical Internships

May 2020 —- · RetinalCare, Machine Learning Consultant — Oklahoma City, Oklahoma
• Create machine learning models with Python to classify patients at high risk for treatable eye diseases leading to blindness (AMD, diabetic retinopathy)
• Developed models with 29% higher accuracy than baseline sorting of diabetes duration to identify people at high risk for diabetic retinopathy
• Developed models with 6% higher accuracy than baseline age-sorting of patients using minimal checkup data, allowing for ~56 more high-risk people to be called in for treatment of AMD

May 2020 —- · Sunforge LLC, Web Development Intern — Somerville, MA
• Independently redesign website to boost SEO and implement new features using HTML/CSS, JS, and React; Ensure website is mobile-friendly

Jun – Aug 2017 · GetInsured, Automation Engineering Intern — Mountain View, CA
• 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 — Durham, NC
• Market / pitch to assist the growth of this student-run startup across campuses and improve / implement the rideshare app

Feb 2018 – Aug 2019 · Stanford University, Research Intern — Stanford, CA
• Co-authored paper and video in JoVe, leading peer-reviewed video journal
• Spearheaded the creation and testing of 50+ microfluidic devices to analyze metastatic cancer cell nuclei deformation
• Independently devised molecular movement simulations to visualize experimental data with Blender and MATLAB

Jul – Aug 2019 · CPrime, Product Marketing and Management Intern — San Mateo, CA
• Led campaigns to identify email marketing strategies and streamlined process 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 customizable 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

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