VANESSA CHEN

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EDUCATION

DUKE UNIVERSITY, Durham, NC   *May 2023*
Bachelor of Science, Computer Science; Minor in Economics; Certificate in Innovation and Entrepreneurship
Relevant Coursework: Data Structures and Algorithms

THE NUEVA SCHOOL, San Mateo, CA   *Jun 2019*
High School Diploma - Unweighted GPA: 3.93/4.0
Relevant Coursework - Advanced Machine Learning, Computer Security, Object-Oriented Programming, Computer Internals, Virtual Reality, CAD for Social Good, Entrepreneurship, Macroeconomics

PROGRAMMING LANGUAGES & SOFTWARE

Languages: Proficient in: Python, Java; Working competency: MATLAB, JavaScript, SQL; Familiar with: C#, HTML/CSS
Software: Arduino, Mathematica, AutoCAD, SolidWorks, Fusion 360, ImageJ, Unity, Fathom, ApE, Blender

RESEARCH & WORK EXPERIENCE

DUKE UNIVERSITY, CoLab Studio TA   *Aug 2019 - Present*
- Assist 30+ students, faculty, and staff per week with 3D printing, laser cutting, electronics, and other fabrication tools in the creative maker space on campus, and provide guidance on design projects
- Repair and maintain 40+ 3D printers per week; recalibrating, unclogging, inserting new material, fixing camera issues

STANFORD UNIVERSITY, Research Intern (Schools of Medicine & Engineering)   *Feb 2018 - Aug 2019*
- Co-authored a paper and video in JoVe, leading peer-reviewed, PubMed-indexed 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
- Prepared two manuscripts discussing the implications of cancer cell nuclei deformation and oligomer analysis

CPRIME, Product Marketing & Management Intern   San Mateo, CA; *Jul - Aug 2019*
- 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
- Collaborated to develop app bundling strategies that project to double the revenue from the previous year

GETINSURED, Automation Engineer Intern   Mountain View, CA; *Jun - Aug 2017*
- Saved the company 2,000+ 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 integrated automation testing tool
- Ensured user-inputted data persisted to the backend using SQL

LEADERSHIP & ACTIVITIES

DUKE IMPACT INVESTING GROUP, Investment analyst   *Sept 2019 - Present*
- Work on a team of 3 analysts to identify promising agricultural startups with an environmental impact, to provide seed funding from our Duke Endowment of $100,000

DUKE SHEROES, Live Events Programming Director   *Sept 2019 - Present*
- Coordinated with industry professionals and Sheroes executive board to plan and organize events for women in STEM

FOLDEX, Laptop Stand Inventor   *Jan 2019 - Present*
- Developed multiple prototypes for a foldable, portable laptop stand and plan to continue company creation in college
- Created a detailed proforma to map out company profits and pitched idea to successful investors for feedback

TEAM USA FIGURE SKATER   *Jan 2007 - Present*
- Placed 10th globally at the Junior Grand Prix representing Team USA, and am a 3-time National competitor

NUEVA H2AC TEAM CO-FOUNDER, Head of 3D Printing and Design   *Oct 2017 - Jun 2019*
- Led team to win the 2017 Northern California Regionals — Placed first out of 20 teams from across the state
- Collaborated in the design, build and modification of our hydrogen-powered radio-controlled car
- Managed all 3D-printed parts and reviewed computer aided design (CAD) parts

PENINSULA BRIDGE PROGRAM, Mathematics Teaching Assistant   *Sep 2017 - Jun 2019*
- Taught math to low income middle-school students in a fun and engaging after-school program
- Initiated a one-on-one program to work closely with students to help synthesize material and build confidence