

# VANESSA CHEN

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## EDUCATION

**DUKE UNIVERSITY**, Durham, NC

*May 2023*

**Bachelor of Science, Computer Science; Current GPA 3.93/4.0**; Certificate in Innovation and Entrepreneurship

**Relevant Coursework:** Data Structures and Algorithms, Computer Architecture

**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:** C, 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, Computer Science TA (Data Structures and Algorithms)**

*Jan 2020 - Present*

- Co-lead weekly discussion section of 30+ 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
- Attend weekly TA meetings and grade exams and final

**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 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 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 environmentally-focused startups, 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 Sheroges executive board to plan and organize events for women in STEM
- Planning event in spring semester in collaboration with other diversity in STEM clubs on campus for 100+ students

**FOLDEX, Laptop Stand Inventor**

*Jan 2019 - Present*

- Developed multiple prototypes for a foldable, portable laptop stand and plan to continue company creation in college

**TEAM USA FIGURE SKATER**

*Jan 2007 - Present*

- Placed 10<sup>th</sup> 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