

Vanessa Chen | Résumé

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Education

Duke University, *B.S. in Computer Science, Minor in Psychology, Innovation and Entrepreneurship.* Aug 2019 – May 2023
Selected Coursework: Data Structures and Algorithms (Java), Computer Architecture (C). Durham, NC; GPA: 3.93

- Data Science (R), Technology Commercialization, Database Systems (SQL)
- Strategies for Innovation and Entrepreneurship, Customer Empathy and Brand Design

The Nueva School, *High School Diploma*, San Mateo, CA. Aug 2014 – Jun 2019
◦ Gap year 2016-17 to figure skate with Team USA

Work Experience

Technical Internships

Salesforce, *Software Engineering Intern.* Remote / San Francisco, California; May 2021 – Aug 2021

- Collaborated with developers, PMs and designers to develop an application's mobile push feature, allowing 700+ enterprise customers gain further analytic insight on their 3000+ mobile apps and test SMS push notifications in real-time.
- Laid out blueprint for backend development by independently designing service architecture document to define all REST API endpoints, appropriate data responses, and identify the process for where the data should be sent / retrieved, streamlining development efficiency.
- Led product development for application frontend including dashboard with real-time analytics and push notification tester to dynamically test notifications with predicted effectiveness for up to 2B+ devices. Developed mock service to display mock data and verify frontend functionality. Utilized JavaScript, React, Nightwatch.js, and Agile development methodologies.

RetinalCare, *Machine Learning Consultant.* Remote / Oklahoma City, Oklahoma; May 2020 – Aug 2020

- Created machine learning models with Python to classify patients at high risk for treatable eye diseases (AMD, DR) that lead to blindness.
- Developed models with 29% higher accuracy than baseline sorting of diabetes duration to identify people at high risk for DR.
- Developed models with 6% higher accuracy than baseline age-sorting of patients using minimal checkup data, allowing for ~1200 more high-risk people to be called in for treatment of AMD.

Sunforge LLC, *Web Development Intern.* Remote / Somerville, CA; May 2020 – Aug 2020

- Redesigned website to boost SEO, implemented new features and made website mobile-friendly using HTML/CSS and JavaScript.
- Implemented captcha in PHP to prevent 1000+ annual spam registrations.
- Created PHP templates to automate process of creating new blog posts entirely through Wordpress dashboard with custom theme, saving the company 100+ hours by bypassing the need for a developer to upload posts.

GetInsured, *Automation Engineering Intern.* Mountain View, CA; June 2017 – Aug 2017

- Saved the company 1,000+ hours of manual testing by automating an entire software portal's UI.
- Led script creation to ensure the quality and stability of a newly developed portal using Sahi, a JavaScript-based automation testing tool.
- Ensured user-inputted data persisted to the backend using SQL.

Other Internships

Vector Rideshare, *Founding Product Team Developer.* Durham, NC; May 2020 – Present

- Market, research and pitch to grow this student-run transportation startup across campuses, now operating in three universities.
- Redesign our custom ridesharing app using Figma to be used by thousands of students.
- Implement audio-based video game for users to play to improve ride experience using JavaScript and React.js.

CPrime, *Product Marketing and Management Intern.* San Mateo, CA; Jul 2019 – Aug 2019

- Led campaigns to identify email marketing strategies and streamlined process for analyzing large annual datasets spanning 2019 by reorganizing the campaign setup structure, removing the need for manual data collection

Leadership

Duke University CS Department, *Data Structures and Algorithms TA.* Durham, NC; Jan 2020 – Present

- Co-lead weekly discussion section of 20 students and hold office hours to help students work through projects and assignments.

Duke Sheroes, *Co-President.* Durham, NC; Sept 2019 – Jan 2021

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

Duke Impact Investing Group, *Investment Analyst.* Durham, NC; Sept 2019 – May 2020

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

Skills

Programming Languages / Frameworks: Java, Python, JavaScript, SQL, C, C#, PHP, R | React, Pandas, PyTorch, TensorFlow

Other Technologies: Unity, Figma, Arduino, SolidWorks, AutoCAD, Fusion360