

Vanessa Chen | Résumé

Skills

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Programming Languages: *Proficient:* Java, Python, JavaScript; *Working Competency:* SQL, C, C#, PHP, R

Frameworks / Libraries: React, Pandas, PyTorch, TensorFlow

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

Education

Duke University, *B.S. in Computer Science, Minor in Psychology, Innovation and Entrepreneurship.* Aug 2019–May 2023

Relevant Coursework: Data Structures and Algorithms (Java), Computer Architecture (C).

Durham, NC; GPA 3.93

- Data Science (R), Technology Commercialization, Database Systems (SQL)
- Discrete Math for CS (Scheme), Design and Analysis of Algorithms

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.*

San Francisco, California; May 2021 – Aug 2021

- Collaborate with developers on the Marketing Cloud Einstein team to develop features for Einstein Copy Insights mobile push, allowing customers to gain further analytic insight on their mobile apps and test SMS push notifications in real-time.
- Independently designed service architecture document to layout all REST API endpoints, define appropriate data responses, and identify the process for where the data should be sent / retrieved.
- Independently develop frontend for mobile push functionality for ECI including dashboard with real-time analytics, and push notification tester to dynamically test notifications with predicted effectiveness. Developed mock service to display mock data and verify frontend functionality. Utilize JavaScript, React, Nightwatch.js, and Agile development methodologies. Update documentation appropriately.

RetinalCare, *Machine Learning Consultant.*

Remote / Oklahoma City, Oklahoma; May 2020 – Aug 2019

- 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, implement new features and make 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 and pitch to grow this student-run startup across campuses, now operating in three universities.
- Redesign our custom ridesharing app to be used by students using Figma.
- Implement audio-based video game for users to play to get to know one another while on rides using JavaScript, React.js.

CPrime, *Product Marketing and Management Intern.*

San Mateo, CA; Jul – 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, *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.

Programming Projects

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