

Audrey Chiang

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EDUCATION

Washington University in St. Louis

Bachelor of Science in Computer Science, Mathematics

Expected Graduation May 2027

GPA: 3.98 / 4.0

EXPERIENCE

Software Engineering Intern - Two Sigma Investments

Trading Engineering

June 2026 - August 2026

New York City, NY

Software Engineering Intern - Two Sigma Investments

Platform Engineering

June 2025 - August 2025

New York City, NY

Research Engineering Intern - Quantum Signal AI (Ford Motor Company)

Performance Engineering Team

May 2024 - August 2024

Saline, MI

- Worked with a small team to develop software and conduct research in support of Ford's VIRTTEX simulator
- Wrote Python, MATLAB, and C code to pass traffic object data between the SCANer and CarMaker simulation softwares, and validated results through Python and MATLAB data analysis
- Created a MATLAB converter to transform project data into the Universal Data Interface format, supporting its adoption in current and future projects
- Developed analysis plans, produced technical documentation, and delivered presentations to stakeholders on designs, analyses, and results

Teaching Assistant - WashU McKelvey School of Engineering

January 2025 - Present

- CSE 361S - Intro to Systems Software
- CSE 332S - Object-Oriented Software Development Laboratory
- Lead in-class studios, host weekly office hours, manage discussion boards, and grade assignments and exams

SKILLS

- Languages:** C, C++, Python, Golang, MATLAB, Java, JavaScript/TypeScript, HTML/CSS, R, SQL, Tcl/Tk
- Frameworks, Libraries, & Tools:** Git, Terraform, Angular, React, Next.js, NumPy

COURSEWORK

CS: Machine Learning, Systems Software, Coding and Information Theory for Data Science, Operating Systems, Compilers, Analysis of Algorithms, Formal Languages and Automata, Object-Oriented Software Development

Math: *Undergrad:* Linear Algebra, Number Theory & Cryptography, Differential Equations, Real Analysis, Statistics, Topology
Graduate: Algebra I-II, Topology I-II, Differential Geometry, Complex Analysis, Algebraic Geometry, Measure Theory

PROJECTS

Major League Hacking Hack WashU 2024 - First Place

October 2024

- First place out of 40+ teams
- Collaborated with a team of 4 to develop [WashU CampusView](#), an interactive 3D crowdsourced map providing campus and shuttle information to WashU students
- Implemented frontend using React and Next.js [[GitHub repo](#)]

Major League Hacking Hack WashU 2023 - First Place

October 2023

- First place out of 200+ contestants
- Collaborated with a team of 4 to develop CourseWatch, a web application designed to improve WashU's course registration by notifying users in real time via text when seats open up in high-demand classes
- Implemented React-based frontend and user authentication [[GitHub repo](#)]

Calendar & Notification System for The Down Syndrome Association of Greater St. Louis (DSAGSL) Jan 2024 - May 2024

- Collaborated with a team of 10 to develop a full-stack calendar & notification web application for DSAGSL clients
- Worked on backend development of client-side application using MongoDB, React, and Next.js

Desmos Global Math Art Contest Winner 2023**November 2023 – January 2024**

- Selected as one of 25 winners out of global contestant pool of 10,000+ [[View submission here](#)][[GitHub repo](#)]
- Used the Desmos JavaScript API and Blender Python API to create animations and synthesized audio from MIDI data

Desmos Global Math Art Contest Winner 2022**November 2022 – January 2023**

- Selected as one of 20 winners out of global contestant pool of 10,000+ [[View submission here](#)][[GitHub repo](#)]
- Used the Desmos JavaScript API and Blender Python API to convert Blender models into 3D animations within Desmos

Student Researcher, Yale Summer Program in Astrophysics**June – August 2022**

- Collaborated with a team of four to collect and analyze data on Asteroid 398118 Agni, contributing findings to the International Astronomical Union Minor Planet Center at Harvard University
- Authored and presented research paper and conducted Python data analysis

EXTRACURRICULARS

Piano, Accordion, Guitar**2009 – present**

- Keyboardist in a funk & jazz student band. Collaborate with bandmates on covers and original compositions, performing at various venues and local events
- 15 years of classical and contemporary piano experience. Self-taught in accordion and guitar

Putnam Math Competition**September 2023 – present**

- Participate in weekly group practice seminars and independent study for the annual Putnam competition

WashU Math Club**September 2023 – present**

- Weekly group problem-solving sessions, discussions, and faculty lectures

Women in Computer Science**September 2023 – present**

- Participate in workshops, networking events, and initiatives aimed at supporting women pursuing careers in tech

Association for Women in Mathematics**September 2024 – present**

- Attend guest lectures and events aimed at supporting women in the mathematical sciences

Google Developer Student Club**October 2023 – May 2024**