

CHRISTOPHER SONG

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EDUCATION

Northwestern University, Bachelor of Arts

Sep. 2019 – Dec. 2023

Double Major in Computer Science & Mathematics, Minor in Data Science

- Cumulative GPA: 3.97/4.00
- Relevant Coursework: **[CS]** Design & Analysis of Algorithms, Data Structures & Algorithms, Agile Software Development, *Operating Systems***, Intro to Computer Systems, Fundamentals of Computer Science I (Racket) & II (C/C++) || **[Math]** Regression Analysis, *Probability & Stochastic Processes***, Linear Algebra, Multivariable Calculus [** *planned/in-progress*]

PROFESSIONAL AND LEADERSHIP EXPERIENCE

Software Development Engineering Intern

June 2021 – Sep. 2021

Amazon: India Consumer Business and Tech Team

- Worked on a project contributing to Amazon's ticketing (issue tracking) system over a 12-week internship
- Used React for the frontend, AWS's DynamoDB for an intermediate DB, and a SpringBoot-like framework for backend integration
- Designed & wrote up detailed documentation regarding intermediate/backend API endpoints and database schemas

Computer Science Peer Mentor (PM)

April 2021 – Present**

Northwestern University: CS Department

- PM for CS 211, a class on programming fundamentals in C/C++, memory management & pointers, and basic Unix shell usage
- Held weekly office hours, answered students' questions on Campuswire, and assisted with grading assignments (~6 hrs/week)

Technical Lead, Project Team Member

Jan. 2021 – Present**

Northwestern University: Develop + Innovate for Social Change

sites.northwestern.edu/discnu/about

- Technical Lead [October 2021 – Present]: Host workshops on basic web/app development (Figma, HTML/CSS, JavaScript, React) during the fall; *assist project teams during winter and spring quarters [expected role during winter & spring 2022]*
- Project Team Member [Jan. 2021 – June 2021]: Helped create a React application (for World Relief Chicagoland) that filters job data by common parameters; see repository for more details - github.com/DISC-NU/World-Relief-Chicago-2021

Math Instructor

Sep. 2020 – May 2021

Mathnasium

- Worked with students of all ages to teach fundamental math concepts, help with homework, fill in knowledge gaps, etc.
- Major Teaching Topics: Elementary Mathematics, Pre-Algebra, Algebra I, Geometry, Pre-Calculus, Calculus

**Position applies during academic year only

FEATURED PROJECTS

AutoSchedule

github.com/cs2027/auto-schedule

React application that generates suggested schedules for college students, esp. quarter system students

- Accounts for course availability, course timing preferences (i.e. fall/winter/spring), pre/co-requisites, among other factors
- Tech Stack: ReactJS, HTML/CSS, JavaScript, Bootstrap

MoneyMadeEasy

github.com/cs2027/money-made-easy

Django web application that serves as a personal budgeting tool, including UI-friendly visual features

- Track income/expenses, compute loan payments, and visualize budget in a UI-friendly 'donut' chart
- Tech Stack: Django, Python, HTML/CSS, JavaScript, UIKit, Chart.js

HONORS/AWARDS

Outstanding CS Peer Mentor Award

June 2021

- Nominated by CS department members for outstanding student mentorship during the Spring 2021 quarter

USA Junior Mathematical Olympiad (USAJMO) Qualifier

2017

- Prestigious, national-level math Olympiad hosted by the Mathematical Association of America (MAA)
- About 250 qualifiers out of an initial pool of >50,000 students

TECHNICAL SKILLS

Web Dev (React, Django), Mobile Dev (React Native, iOS, Android), Python, HTML/CSS, JavaScript, Java, C/C++, Swift, SQL