CHRISTOPHER SONG

chrissong2023@u.northwestern.edu | github.com/cs2027 | linkedin.com/in/christopher-song

EDUCATION

Northwestern University, Bachelor of Arts   **Sep. 2019 – Dec. 2023**
Double Major in Computer Science & Mathematics, Minor in Data Science
- Cumulative GPA: 3.98/4.0
- Relevant Coursework: **[CS]** Agile Software Development, Data Structures & Algorithms, Intro to Computer Systems, Fundamentals of Programming I (Racket) & II (C/C++) || **[Math]** Linear Algebra, Multivariable Calculus, Intro to Statistics

PROFESSIONAL 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)   **[Academic Year Only] 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 (3 hrs/week), answered students' questions on Campuswire, and assisted with grading assignments

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

Private Math Tutor   **2017 - 2019**
- Individualized math tutoring sessions on a weekly basis, primarily for middle school students
- Major Teaching Topics: Pre-Algebra, Algebra I, Geometry, Algebra II, Trigonometry

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

JobStop   **github.com/cs2027/job-stop**
iOS application in Swift that displays income and growth projection data for a specified job
- View income & growth projection data for a single job, compare these data points for two jobs within the same state, or even compare two jobs across different states (including adjusting income data by a state's cost of living)
- Tech Stack: XCode, Swift, UIKit, SwiftUI

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