

Jonathan Cheng

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EDUCATION

SAT: 1530/1600 | GPA: 3.62

University of Pennsylvania, The College of Arts and Sciences

Class of 2028

BA: Computer Science and Cognitive Science

WORK EXPERIENCE

Duke University - *Software Developer Intern/ App Researcher*

July. 2023 - Sep. 2023

- Developed a fullstack habit and task-tracking mobile application from prototyping and UI/UX design to implementation and testing under Dr. Rabih Younes
- Implemented an intuitive frontend user interface in Swift
- Built backend user authentication system and database infrastructure using Firebase to store user information
- Prototyped the application using Figma to develop a clean and straightforward customer interface
- Brainstormed new ideas with professor to improve the app's UI/UX and existing product features

Brown Pre-College: *Ethical Questions of the Information Age - Student*

July. 2023 - Aug. 2023

- Analyzed contemporary ethical dilemmas in technology including information tracking, artificial intelligence, and autonomous vehicles through the frameworks of Utilitarian, Kantian, and Aristotelian philosophies
- Delivered a presentation on Facebook's data collection practices through multiple ethical frameworks
- Authored a research paper investigating algorithmic bias in media censorship and autonomous vehicle decision-making under the mentorship of Dr. Deborah Hurley

Engineering Summer Academy at Penn - *Student*

July. 2022 - Aug. 2022

- Developed interactive games and visualizations in Python including Hammurabi's Code simulation, Sierpinski's triangle generator, and Wordle clone
- Conducted data analysis on Netflix content trends using pandas, examining show popularity and duration patterns over time
- Developed proficiency with pandas library for sophisticated data manipulation and analysis under the mentorship of Dr. Arvind Bhusnurmath

ACTIVITIES & CERTIFICATIONS

Division 1 Athlete - *Men's Foil Fencer*

Aug. 2024 - Present

- Balance rigorous 15-hour weekly schedule including early morning strength training and daily practice while maintaining academic commitments
- Collaborate with coaches and teammates to analyze techniques and strategies, contributing to team skill development
- Compete at collegiate and national tournaments, representing university at highest levels of competition
- Demonstrate quick decision-making abilities under pressure in competitive environments
- Develop leadership skills through team collaboration and mentorship opportunities
- Cultivate discipline and perseverance through intensive training regimen and competitive challenges

J.P. Morgan Chase - *Software Engineering Job Simulation on Forge*

Feb. 2025 - Mar. 2025

- Built financial transaction system with Spring Boot and Kafka for asynchronous processing
- Implemented SQL database operations with H2, creating validation logic to ensure financial transaction integrity
- Developed RESTful API endpoints and integrated external services with comprehensive testing

Skills: Java; Python; OCaml; Swift; SwiftUI; Figma; Firebase; Pandas