

Jim Guo

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Education

Carnegie Mellon University

May 2026

B.S. in Electrical and Computer Engineering

GPA: /4.00

Relevant Coursework: Principles of Imperative Computation, Concepts of Mathematics, Introduction to Electrical and Computer Engineering, Fundamentals of Programming

Work Experience

- **IT Engineer Intern: Company X** August 2019 – June 2021
 - Diagnosed and Trouble-shot client PC and Mac software, OS, and hardware difficulties.
 - Worked in a team with 3 other employees to develop sophisticated plans and designated tasks accordingly to resolve malfunctions.
 - Handled 4 to 5 clients a week; conversed with clients about the causes and prevention of the problems to their technology.
- **Technology Contractor: Company Y** June 2020 - March 2021
 - Built an IOS application that allows seniors to communicate easily with their caretakers during the pandemic.
 - Created the backend to the chatting feature using SWIFT and Objective-C.
 - Designed the user interface using the Cocoa Touch framework.
 - Implemented a comprehensive Google Firebase database that stored log-in information and user profiles.
 - Made a simple website for the application in HTML and Javascript that presented the app's user agreement and other miscellaneous set-ups for the app.

Projects

- **Blackjack Bot** September 2022 - Present
 - Creating a single-player Blackjack machine learning bot that runs Monte Carlo simulations to play Blackjack with the user.
- **NBA Statistics Research Project** March 2022 - May 2022
 - Used the Panda framework on Jupyter notebook to present a statistics inquiry on NBA player Russell Westbrook's shooting splits.
 - Presented the paper to a group of 40 students and a mathematics professor of the University of Illinois.
- **Physics-Chemistry Equation App** January 2021 - April 2021
 - Constructed an IOS application that stored over a hundred physics and chemistry equations to the user's disposal.
 - Created the backend frameworks of the app in Objective-C and SWIFT, and designed the UI with the Cocoa Touch interface.

Skills

Languages: Java, Python, C, C++, Objective-C, SWIFT, LaTeX, HTML, CSS, Javascript

Technologies: Panda, NumPy, Jupyter, Git, Google Firebase (NoSQL), Cocoa Touch

Activities

- CMU Business Technology Group 2022
- CMU Poker Club 2022
- CMU Basketball Club 2022