Christopher J. Lee

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Summary

Prospective mathematics and economics double major with experience in app development; passionate about mobile software development and finance; enjoys exploring the outdoors; seeking opportunities within the software development, financial services, or environmental industry.

Education

Kenyon College **Gambier, OH**
Bachelor of Arts in Mathematics and Economics Expected 2024
Concentration in Scientific Computing

- GPA: 3.39
- Merit list: Spring 2021
- Coursework includes Software & System Design, Macroeconomics, Data Analysis, Foundations

Hanover High School **Hanover, NH**
Four-year Academic Honor Roll 2020

- GPA: 3.60

Experience

Esri **Redlands, CA**
Incoming iOS Runtime SDK Intern Expected May – Aug 2022

STEM Robotix **Hanover, NH**
Teaching Assistant Aug 2015 – Jul 2021

- Instructed LEGO EV3 Robotics and Python to children in grades 3-6
- Assisted students in the EV3 Program to use LEGO programming software to maneuver an EV3 robot through various physical challenges
- Taught Python class variables, loops, functions, turtle, and Pygame to produce Pong as a final project

Hanover High School Aquatic Club **Hanover, NH**
Moderator Aug 2016 – Jun 2020

- Maintained and restored two school fish tanks to learn more about marine life and raise awareness about the coral reef crisis
- Developed, designed, and maintained club website to gain experience in basic HTML/CSS, user-interface design, and web hosting skills

Awards and Achievements

Apple WWDC Swift Student Challenge Winner **Jun 2020, 2021**

- Awarded Apple's Worldwide Developer Conference Swift Student Challenge award in 2020 and 2021

- Developed an innovative Swift Playground featuring an interactive app to visualize Fast Fourier Transforms in 2021 and the power of compound interest in 2020

Columbia University Summer Immersion Program **Jun – Jul 2019**

- Completed a "challenging college-level" Investment Portfolio Management Course at Columbia University in New York, NY
- Learned how to analyze a company's income statement, balance sheet, and cash flow and produce discounted cash flow valuations based on those metrics
- Lauded as a "very smart and extraordinary student; able to think critically, identify key company drivers, and construct relevant valuation framework"

Personal Projects

Tremor Analysis **Jun 2020 – Present**

- Developing and designing an iOS app with Swift/SwiftUI to aid Parkinson's Disease patients by analyzing tremors and identifying their component frequencies and magnitudes
- Utilizing Apple's Accelerate framework to compute component frequencies using Fast Fourier Transform, Core Motion framework to gather accelerometer data, and Core Data to store user tremor recordings on-device
- Gathered feedback from a doctor specializing in neurology and movement disorders during beta testing before publishing app on Apple's App Store

Python Trade Bot **Jan – Feb 2021**

- Programmed Python program to calculate buy and sell signals based on technical indicators
- Utilized SQLite3 to create a database of historical prices and technical values
- Used an API to access stock prices and submit paper orders

Investing For All **Mar – Jun 2020**

- Coded an iOS app in SwiftUI featuring a simulated portfolio and a stock search tap which displayed price, news, and historical price chart
- Incorporated CoreData to store the user's trades and simulated portfolio
- Used an API to fetch stock prices and news

Skills

Programming:
Swift, SwiftUI, C++, Python, HTML/CSS, Xcode, CLion, Visual Studio Code, Figma, Adobe XD

Interests:
software development, machine learning, investment portfolio management, ESG investing, tennis, cycling, hiking, photography