Christopher Lee

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Education

Kenyon College | Gambier, OH — May 2024 (Anticipated)

Course work includes Economics, Calculus, Introduction to Programming, Physics, and French

Hanover High School | Hanover, NH — June 2020

GPA: 3.6, four-year Academic Honor Roll

Experience

Teaching Assistant, STEM Robotix | Hanover, NH — August 2015-August 2020

- Instructed LEGO EV3 Robotics and Python programming to classes of 12 children in grades 3-6
- Introduced Python students to creating fractals with Turtle graphics; game development with Pygame; and fundamental programming techniques such as for loops, while loops, and recursion
- Created online-learning course material for Python class and instructed classes via Zoom to adapt to remote learning during the summer of 2020

Moderator, Hanover High School Aquatic Club | Hanover, NH — August 2016-June 2020

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

Developer, Hanover High School March Intensive | Hanover, NH — March 2020

- Collaborated with a peer to develop an Apple Mac app of a 3D ecosystem simulation for a school project to further our knowledge of Swift, SceneKit, and Blender
- Used Swift to create user-interface and simulate the ecosystem; SceneKit to create a 3D environment with trees, animals, and bodies of water; and Blender to design and create 3D models
- Utilized Github and Git to manage collaboration and version control

Student Event Organizer, Positive Tracks | Hanover, NH — March-August 2019

- Collaborated with 12 student peers to organize a school-wide, purpose-driven event by coordinating with town officials for traffic management and school administrators to propose our event plans and environmental sustainability goals
- Increased awareness about climate change and sparked environmental sustainability improvements at Hanover High School, such as improving compost and reducing single-use plastics
- Created a base model for future student-run events by executing a successful, inclusive, community-building event

Personal Projects

TradeBot January 2021-Present

- Developing a stock market trading bot using Python, SQLite, and Alpaca API to calculate and place buy and sells based on various technical indicators
- Using Git and Github for source control

Tremor Analysis June 2020-Present

- Developing and designing a mobile 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 and Core Motion framework to gather accelerometer data
- Published app to TestFlight for beta testing in order to gather feedback from doctors specializing in neurology and movement disorders

Investing for All March 2020-Present

- Developing and designing a mobile app with Swift to introduce everyone to investing by managing a simulated portfolio and viewing informative stock quotes
- Using Apple's SwiftUI framework to construct the user-interface and pass data, Core Data framework to store local data, and Combine framework to process JSON and send API calls for stock data
- Utilizing Github and Git to manage collaboration and version control

Awards & Achievements

Apple WWDC20 Swift Student Challenge Winner June 2020

- Awarded Apple's Worldwide Developer Conference 2020 Swift Student Challenge award
- Designed and developed an innovative, creative, and interactive application to visualize and calculate the power of compound interest
- Utilized SwiftUI framework to create intuitive and dynamic user-interface and pass data throughout the application

Columbia University Summer Immersion Program | New York, NY June-July 2019

- Completed a "challenging college-level" Investment Portfolio Management Course
- Lauded as a "very smart and extraordinary student; able to think critically, identify key company drivers, and construct relevant valuation framework"
- Analyzed financial valuations of companies using DCF model and Excel

Skills & Interests

Programming: Python, Swift, Basic HTML/CSS, Xcode, Adobe XD

Interests: Software Development, Machine Learning, Investment Portfolio Management, Space Exploration, Tennis, Cycling, Hiking, Photography