

Jonathan Buhler

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- Cambridge, UK
- [GitHub](#)
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Education

- University of Edinburgh**
(2017 - 2022)
First With Honours
Integrated Masters in Informatics (specialised in AI)
- Stuyvesant High School**
(2013 - 2017)
NYC Specialized H.S.

Hons. University Marks

- 5th Year:** 76% (US: 4.0)
- 4th Year:** 70% (4.0)
- 3rd Year:** 81% (4.0)

US Exam Scores

- SAT:** 1540 (out of 1600)
- AP Exams (≈ A Levels):**
 - Calculus BC: 5 (out of 5)
 - Computer Science: 5
 - English Language: 5
 - US History: 5
 - European History: 5

Technical Skills

- | Languages: | Technologies: |
|------------|----------------|
| • Swift | • SwiftUI |
| • Python | • TensorFlow |
| • JS/TS | • PyTorch |
| • C++ | • OpenCV |
| • Solidity | • scikit-learn |
| • Java | • Node.js |

Interests

- Hiking
- Cognitive Science
- Photography
- Public Speaking
- Reading on rainy days

Profile

Software Engineer and Designer, ex-Apple's Siri team. Masters of Informatics (First with Honours) from the University of Edinburgh. Raised in NYC, fluent in English and German with US, UK, and German citizenship.

Work Experience

- Apple** (2022-2023)
 - Industrial placement as an engineer working on personalising Siri's behaviour for individual users by analysing data streams, detecting error patterns, and injecting pre-emptive fixes
 - "Exceeded expectations" in innovation and was praised for proactively establishing cross-team collaborations
 - Worked exclusively in Swift and SwiftUI
 - Independently prototyped new UI interfaces for existing systems and integrating large language models into our product
- Consensys** (2018)
 - Interned as a software engineer for the Pegasys R&D division
 - Worked on EthQL, a GraphQL interface to Ethereum, coded in TypeScript

Projects and Relevant Coursework

- AI Safety Research Group, Cambridge Effective Altruism** (2022)
 - Reading group examining novel AI alignment and robustness research
- Masters Project** (2021 - 2022)
 - Researched the exposure-response relationship between particulate matter in the air and breathing rates
 - Used machine learning to predict future breathing rates of subjects given a series of time indexed air quality data points
- Honors Project** (2020 - 2021)
 - Researched how to reproduce human-like behavior in game theory with autonomous agents
 - Used reinforcement learning with Python and TensorFlow
- Tesco Delivery Slot Detector** (2020)
 - Built web scraper to monitor Tesco's site for availability
 - Made during COVID for my grandparents, emphasised ease of use and reliability
- Cryptocurrency Trading Bot** (2020)
 - Built autonomous trading bot that would scrape price predictions from the web using Puppeteer, then rebalance portfolio using the CCXT library
 - Coded in TypeScript, hosted on Raspberry Pi, and run with TS-Node
- SpaceX HyperLoop Competition** (2019)
 - Worked on telemetry for high-velocity pod in yearly SpaceX competitions
 - Coded pod communication and modular front-end display in JavaScript and Vue
- Formula Student AI Division** (2019)
 - Worked on the Planning & Control Team designing a self-driving race car
 - Researched and implemented intelligent algorithms for yearly competitions
- System Design Project** (2019)
 - Built robot on TurtleBot platform that was capable of accurately returning to station from anywhere in the room, aligning itself, and docking
 - Successfully managed team of 10 students
- Hack The Burgh - International Hackathon** (2019)
 - Using TensorFlow and OpenCV, built a smoking detection bot
 - Team won the ARM challenge
- Google Hash Code** (2019)
 - Came first in Edinburgh, 239 out of 3000 worldwide