

# Noah Brauner

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## EDUCATION

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### HARVARD COLLEGE

Concentration: Computer Science and Applied Math

Cambridge, MA

*Expected May 2029*

### NOBLE AND GREENOUGH SCHOOL

Cumulative GPA: 4.0/4.0 | SAT: 1570

Dedham, MA

*May 2025*

Awards: Computer Science Prize (2025), Excellence in Technical Theatre (2025), Service in CS (2022, 2024)

## WORK EXPERIENCE

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### TIDEPOOL

*Software Engineering Intern*

Boston, MA (remote)

Summers 2023, 2024

- Conceived and designed user interface for novel functionality of an FDA-approved automated insulin dosing app
- Programmed entire new feature (5000 lines of code) and passed quality reviews necessary for medical grade software
- Rebuilt central dosing module of app with modernized code to allow for integration of new elements
- Reviewed code and participated in daily meetings as part of a team of 5 full-time professional software engineers

### APIER LLC

*Owner and Software Developer*

Boston, MA

August 2020-Present

- Published and unpublished apps include social networking games, puzzle games, utility apps
- Downloaded over 6500 times on the Apple App Store in 50+ countries
- Managed fullstack software with Google Firebase for user authentication and a realtime database

## PROJECTS

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### LOOP - AN AUTOMATED INSULIN DELIVERY APP

- Contributed to an open-source application that monitors and doses insulin for 20,000 patients with type 1 diabetes
- Designed core elements enabling users to monitor their blood glucose values and insulin levels
- Pull requests integrated into main Loop repository; collaborated with professional programmers

### NOBLE AND GREENOUGH SCHOOL APP

- Single-handedly wrote a large scale application from scratch - 40+ screens, 25k+ lines of code, relied on by 800 users
- Interfaced with MySQL and AWS databases and integrated with Veracross student information system

### MACHINE LEARNING PNEUMONIA DETECTION APP

- Created a convolutional neural network (CNN) to diagnose pneumonia with 91% accuracy
- Used the CoreML framework to integrate ML model into iOS app

## SKILLS

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### PROGRAMMING LANGUAGES

- Swift - Created multiple original apps; 6 years experience, 75k+ lines of code
- Python - Developed an efficient scheduling tool, multiple AI models and a blockchain system from scratch
- Java - Wrote and deployed code for Nobles' 2022 FTC robot, advancing to Massachusetts state championship
- C - Replicated a "Hash Map" to gain an understanding of data structures; maintain older iOS codebases

### SOFTWARE SKILLS

- Git - Deployed code, collaborated on open-source and proprietary repositories
- Scripting and Command Line - Used Bash scripts, Python, and the command line to organize file systems
- Network/Cybersecurity - Employed internet proxies, intercepted web requests, and pentested using Burp Suite

## VOLUNTEER EXPERIENCE

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### JDRF RIDE TO CURE DIABETES

Summers 2019, 2022, 2024, 2025

- Raised over \$35,000 for JDRF, won Best Young Rider award after cycling 100 miles