# Noah Covey

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## EDUCATION

**HARVARD UNIVERSITY**                                                          CAMBRIDGE, MA | SEP 2019-PRESENT

- A.B. expected in 2023 in Applied Mathematics and Computer Science; 4.00 GPA
- Coca-Cola Scholarship, National Merit Scholarship
- Relevant coursework: Functional programming, linear algebra, differential equations, discrete mathematics, multivariable calculus

**DUNWOODY HIGH SCHOOL**                                                          DUNWOODY, GA | AUG 2015-MAY 2019

- 4.43 GPA; SAT: M 800, V 790; Governor's Honors Program in mathematics, Apple WWDC Scholar

## EXPERIENCE

**HSA DEV | FULL-STACK SOFTWARE ENGINEER**                                        CAMBRIDGE, MA | JAN 2020-PRESENT

- Writing code for full-stack Javascript web applications using React.js, Node.js, and Apollo GraphQL
- Collaborating with small team to implement video-streaming platform for English language learners for Japanese company
- Wrote API for logistics startup to search hundreds of thousands of trucking carriers, and manage authentication and user data
- Improved speed of search algorithm from about 60 seconds to under 2 seconds
- Developed frontend for users to manage and view company profiles and perform detailed, filtered searches for carriers

**GEORGIA TECH RESEARCH INSTITUTE | VR RESEARCH INTERN**                          ATLANTA, GA | MAY-AUG 2018

- Contributed to to Unity VR proof-of-concept simulator projects for clients such as Department of Defense and CDC epidemiology
- Researched and developed ARKit mobile app demonstrating AI planning system capabilities

## PROJECTS

**50FIFTY (50FIFTY.US)**                                                          JUL 2018-JAN 2019

- Co-developed website that uses a machine learning model to predict U.S. elections, including state legislatures and Congress
- Collected, parsed, and trained model on data including past election results, demographics, and fundraising
- In 2018 midterm elections, correctly predicted ~95% of races

**DUSKFALL (BIT.LY/DUSKFALL)**                                                    MAY 2017-AUG 2018

- Designed, coded, created graphics, and composed music for highly-rated 2D iOS game using Swift and SpriteKit framework
- Published by Nanovation labs, featured on the App Store front page in 154 countries, and received over 75,000 downloads

## LEADERSHIP AND ACTIVITIES

**HARVARD COMPUTER SOCIETY**                                                      SEP 2019-PRESENT

- Coding projects using React.js and Scikit-Learn machine learning, including for competitive process of joining the society

**FIRST ROBOTICS COMPETITION TEAM | PRESIDENT AND HEAD OF PROGRAMMING**           AUG 2016-MAY 2019

- Led machine vision research, mentored younger programmers, developed team strategy, and planned meetings and fundraisers
- Innovation in Control Award (2018); 1st place at Dalton competition (2018); advanced to World Championship (2017-2019); highest ranked rookie team in the world, 51st out of 3000+ teams (2017)

## SKILLS AND INTERESTS

- **Programming languages:** JavaScript, Python, Swift, C, HTML/CSS, SQL
- **Technologies:** Git, React.js, Node.js, GraphQL, Firebase, Objection.js, relational databases
- **Tools:** Xcode, MATLAB, VS Code
- **Music:** Classical piano; pianist in Harvard Jazz Combo Initiative; WHRB Jazz DJ; self-taught guitar; songwriting for rock band
- **Languages:** Spanish (proficient, scored 5 on AP exam)
- **Tutoring:** co-founded tutoring company Ascent Math, taught small-group summer courses, volunteered in ESOL math classes
- **Travel:** Immersion program in Spain (2018), backpacked/lived 6 weeks in Europe (2019), backpacked in British Columbia (2019)