

Noah Covey

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EDUCATION

HARVARD UNIVERSITY

APPLIED MATHEMATICS AND COMPUTER SCIENCE

CAMBRIDGE, MA
SEP 2019-PRESENT

- A.B. expected in 2024; 4.00 GPA; Leave of absence Fall 2020-Spring 2021 due to pandemic
- Computer science coursework: Algorithms and data science, big data, functional programming, discrete mathematics
- Math coursework: Linear programming, linear algebra, differential equations, multivariate calculus
- John Harvard Scholar; Coca-Cola Scholarship; National Merit Scholarship

DUNWOODY HIGH SCHOOL

AUG 2015-MAY 2019

- 4.43 GPA; SAT: M 800, V 790; Governor's Honors Program in mathematics; Apple WWDC Scholar
- FIRST Robotics Competition – President and Co-Founder; Led machine vision research; Highest ranked rookie team in world

EXPERIENCE

MERCURY TECHNOLOGIES

BACKEND ENGINEERING INTERN

SAN FRANCISCO, CA
MAY 2022-PRESENT

- Collaborating with Cards team to give customers a frictionless debit and credit card experience
- Writing fast and safe Haskell code for Mercury's banking-for-startups backend

CARRIERSOURCE ([CARRIERSOURCE.IO](https://carriersource.io))

INTERIM CTO, LEAD SOFTWARE ENGINEER

REMOTE
SEP 2020-MAY 2022

- Developing and maintaining frontend, admin portal, and backend of Seed logistics startup using React and Node JS
- Scaled platform from 0 to over 100,000 monthly visitors, navigated company through \$1M seed round
- Coordinating deployments with AWS Amplify and Elastic Beanstalk, and administering relational database with AWS RDS
- Designing and implementing business development initiatives to accumulate tens of thousands of signups and reviews
- Writing scripts to parse 15 million lines of FMCSA data per month and conduct daily database updates
- Improved speed of 700,000-carrier search algorithm from 60 seconds to under 4 seconds using custom GraphQL API

HARVARD STUDENT AGENCIES (HSA) DEV

FULL-STACK SOFTWARE ENGINEER

CAMBRIDGE, MA
JAN-SEP 2020

- Collaborated with small team to develop class platform for English language learners; integrated video and payments APIs
- Offered promotion to Head of Engineering of company

PROJECTS & ACTIVITIES

HARVARD VENTURES, DIRECTOR OF VENTUREWORKS

DEC 2021-PRESENT

- Coordinating 2-month accelerator for student startups, including equity-free grants, industry mentorship, and weekly workshops

TEACHING FELLOW, AM 22A (LINEAR ALGEBRA AND MULTIVARIATE CALCULUS)

SEP-DEC 2021

- Teaching weekly sections on MATLAB and proof techniques, holding office hours, grading student problem sets

50FIFTY ([50FIFTY.US](https://50fifty.us))

JUL 2018-JAN 2019

- Co-developed website that uses machine learning model to predict U.S. midterm elections in state legislatures and Congress
- Collected and analyzed data such as past election results, demographics, and fundraising to train model; 90-95% accuracy in 2018

DUSKFALL ([BIT.LY/DUSKFALL](https://bit.ly/duskfall))

MAY 2017-AUG 2018

- Developed 2D iOS game using Swift and SpriteKit; published by Nanovation labs, featured on the App Store, 75,000+ downloads

SKILLS & INTERESTS

- **Programming languages:** JavaScript, Python, Swift, C, SQL, HTML/CSS, MATLAB, Haskell
- **Technologies:** Git, AWS, React.js, Node.js, GraphQL, Firebase, relational databases, CI/CD
- **Music:** Classical pianist; WHRB (Harvard Radio) Jazz DJ; songwriting and performance for rock bands; self-taught guitarist
- **Language:** Spanish (proficient)