

Experience

Skiff | Product Engineering Intern

San Francisco CA • June 2021 – PRESENT

- Building a privacy-centric document collaboration platform. Engineering product features within an end-to-end encrypted, decentralized architecture.

Own Up | Software Engineering Intern

Boston MA • DEC 2020 – JUNE 2021

- Engineered serverless functions and orchestrated state machines to execute complex mortgage offers computations for quoting engine backend.
- Designed in-house cloud resources SDK to programmatically integrate AWS Lambdas, DynamoDB queries, and SNS events into multi-step state machines, accelerating developer velocity and widening DevOps visibility.
- Scripted unit and integration tests with Jest to reach maximum scenario coverage before each feature deployment.

DALI Lab | Student Software Engineer

Hanover NH • JAN 2019 – JUNE 2020

- Worked in tandem with UX researchers and UI designers through Agile process to swiftly deliver weekly live React Native prototypes for rapid user-testing.
- Deployed and scaled two Node.js applications on Heroku in direct partnership with Dartmouth College administration for over 2,000 users.

Plug and Play Ventures | Summer Analyst

Sunnyvale CA • JUNE – AUG 2019

- Co-led \$150K seed investment in a cybersecurity startup to strategically shift our firm into an emerging technology space.
- Built Python data-scrappers to automate startup sourcing, optimizing workflow efficiency by ~25x for \$200M venture fund.

Projects

Trailhead Platform

[React](#) [ExpressJS](#) [MongoDB](#) [AWS S3](#) • doc.dartmouth.edu

Re-engineered web platform with critical COVID contract-tracing system to safely coordinate outdoor trips among 1,500 members of the country's largest collegiate outing club.

High-dimensional outlier detection algorithms

[Python](#) [Jupyter](#) [Clustering](#) • Dartmouth Computer Science Dept.

Implemented a dynamic programming algorithm coupled with K-Means clustering that surpass current precision and recall benchmarks in detecting in high-dimensional anomalies in network intrusion and cancer imaging datasets.

D-Planner

[React](#) [ExpressJS](#) [MongoDB](#) [Figma](#) [BigQuery](#) • d-planner.com

Won \$20,000 grant from startup competition to design and build a degree-planning app now used by over 800 Dartmouth students to visualize and map out their academic schedules.

Education

Dartmouth College, A.B.

Major in Computer Science
Minor in Human-centered Design and Philosophy, Class of 2022

GPA **3.84**

Data Structures • Algorithms
Full-stack Dev • Machine Learning
Game Dev • Computer Architecture
Data-stream Algorithms

Rufus Choate Scholar 2019: top 5% of class

Skills

Proficient

Familiar

TypeScript

– 11 projects

Java

– 4 projects

Python

– 5 projects

Unity & C#

– 3 mini-games

React & Redux

– 5 apps

SQL

– many queries

ExpressJS

– 6 APIs

GraphQL

– many mutations

Figma

– 4 UI projects

Test-Driven Dev

– 120 suites

Fun

DSLR 1,602 shots

Origami π models

Leadership

The Dartmouth, Inc.

Technology Director

Trained a team of six student engineers to build a newspaper mobile app for 4,000+ students.

DALI Lab

Partner Relations Lead

Secured three paying client leads in 2020FY to deliver critical MVPs and envision product strategy.