

# Ryan Drew

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## Education

**Northeastern University**, Boston, MA

Sep 2017 – Present

**Khoury College of Computer Sciences** | Candidate for BS in Computer Science, December 2021

*GPA:* 3.8/4.0

*Activities:* Distilled Harmony A Cappella (President), TA for Accelerated Fundamentals of CS 1

*Relevant Courses:* Computer Systems, Networks & Distributed Systems, Building Extensible Systems

## Experience

**Facebook** – *Software Engineering Intern*

May 2021 – Aug 2021

- Wrote data normalization algorithm for showing multiple curves on the same graph using limit calculus
- Invented and implemented new web component outside of assigned project, now used by multiple other Facebook teams in place of their old solution due to ~70% performance improvement

**Facebook AI Research** – *Software Engineering Intern*

May 2020 – Aug 2020

- Designed and implemented modular block-based programming interface for directly teaching a generalist AI bot new skills, resulting in a published paper: <https://arxiv.org/abs/2101.10384>
- Deployed programming interface to a web application using AWS for data collection outside team

**NASA Jet Propulsion Laboratory** – *Software Engineering Co-op*

Jan 2020 – May 2020

- Design new data visualizations for Curiosity rover telemetry used at mission-wide “trending” missions
- Modularize JavaScript code into a library for use in different existing and potential applications, including Plotly.js visualization code, Elasticsearch query code, and JavaScript data modification code
- Develop rover software patch to fix potential fatal shutdown vulnerability (will uplink Summer 2021)

**Paperless Parts** – *Software Engineering Co-op*

Jan 2019 – Aug 2019

- Added and maintained the company’s only end-to-end testing, integrating Selenium with Jenkins CI
- Increased frontend build performance by over 60% by rewriting its build process using Webpack

**Sandbox at Northeastern** – *Executive Director & Co-founder*

Oct 2018 – Dec 2019

- Founded a software consulting organization with 45 members building applications for researchers
- Managed external communications and growth, securing funding, AWS support, and new members

## Computer Knowledge

*Languages:* JavaScript, Python, Java, HTML, CSS, Rust, Racket/Scheme, C

*Frameworks/Tools:* React, NodeJS, Webpack, Plotly.js, Django, Selenium, NGINX, Git, Vim, Figma

## Projects

**SearchTRACE** – *Co-Creator*

Apr 2019 – Present

Designed and implemented the frontend using React for an application to present Northeastern course review data in an intuitive and easy-to-use way. Received the Design Award for UI/UX at HackDartmouth 2019.

**Gatsby, Webpack** – *Contributor*

Mar 2019 – Present

Add features, fix bugs, and write documentation for two open-source packages used by millions of projects.

## Interests

- Distance running, UI/UX design, music performance, personal health, Esports