

# Da-Jin Chu

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## EDUCATION

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### Northeastern University

Aug 2017 – May 2021

Candidate for a Bachelor of Science in Computer Science, GPA: 3.95/4.00

Coursework: Computer Systems, Intro to Cybersecurity, Algorithms, Logic and Computation, Building Extensible Systems, Object Oriented Design, Embedded Design, Discrete Structures

Activities: TA for Fundamentals of Computer Science 1, Technical Director of Sandbox

## EMPLOYMENT

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### Software Engineer, Co-Op

Alignable

Jul 2019 – Present

- Rapidly developed and deployed features that increase user generated content and incentivize paid upgrades.
- Increased number of users creating and engaging with content by creating geofenced forums.
- Overhauled forum notification system, driving repeated and habitual user activity.
- Rebuilt and optimized public-facing pages to improve search engine rankings.

### Software Engineer, Intern

RSA

May 2018 – Jun 2019

- Built a full-stack enterprise search tool from the ground up that scrapes documents from a range of internal sites, elevating product knowledge across the sales engineering department.
- Improved robustness of product demos by leading three interns to build a portable system that runs interactive demos anywhere from briefing centers in Singapore to booths at conferences.
- Maintained and secured production VMs and created a web application to track VM maintenance.

### Software Engineer, Intern

MITRE

Jun 2016 – Aug 2017

- Integrated real time signals from ground stations around the world into an online interactive map of the GPS satellite constellation, enabling the Air Force to monitor GPS satellite health.
- Designed and implemented a REST API to achieve feature parity with an existing web application.

## ADDITIONAL EXPERIENCE

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### Technical Director

Sandbox at Northeastern

Oct 2018 – Present

- Founded a software consulting club with 25 members building custom software for researchers.
- Built a web app and RESTful backend to run an online psychology study and collect data for a professor studying how people empathize with others.
- Designed a continuous integration and deployment pipeline, reducing release cycle times.
- Creating a web-based data annotation system to help a professor train an activity recognition model.

## PROJECTS – more at [dajin.dev/#projects](https://dajin.dev/#projects)

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### Search TRACE

- Developed a site for students to explore course evaluation data and make informed course selection choices.
- Built a scraper to authenticate with Northeastern servers and parse course evaluation reports.
- Secured sensitive data behind email-based authorization, preventing access by non-students.

### MIT Battlecode

- Created a bot to play a turn-based strategy game against other bots. Placed top 24 of 1000+ teams.
- Implemented Dijkstra's algorithm to perform pathfinding, fleeing, and goal-seeking behavior, and optimized by reusing and selectively recomputing the path tree across all game units.

### Gesture Calculator

- Designed a calculator app that lets users perform drag and drop gestures in a "graph paper" environment.
- Added a lasso tool by utilizing Delaunay triangulation to detect polygonal intersection.

## SKILLS

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**Languages & Databases:** JavaScript, Java, Python, Ruby, HTML, MySQL, MongoDB, Redis, Elasticsearch

**Frameworks:** React, Gatsby, Next.js, Express.js, Rails, Android

**Development Tools:** Git, Vim, Ubuntu, Docker, NGINX, TravisCI, DigitalOcean