

# Adam Novotny

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Bend, OR

## EXPERIENCE

### **Criminal System Reform Capstone, Project Manager, Data Analyst**

Jan 2020 - Dec 2020 | Boston, MA

Established relationships with community organizations to guide our work.  
Led a team of three students in a data analysis project.  
Wrote FOIA requests, analyzed data with Pandas to write a report to support Black and Pink's advocacy work.  
Ensured effective continuation of the projects by documenting our work and consulting with new team members.

### **SUSTECH Summer Engineering Program, Course Assistant**

Jun 2020 - Aug 2020 | Shenzhen, China

Mentored students in project management, design processes, and software design through lectures and team meetings.  
Worked with design professors to create coursework and grade student work.

### **Foundations of Computer Science, Teacher's Assistant**

Fall 2020 | Boston, MA

Wrote and presented mini-lectures on computing concepts (turing machines, formal languages,  $\lambda$  calculus) and OCaml.  
Tutored students one-on-one and in group settings.  
Maintained and added features to automated homework test software.

### **Olin College Library, Software Developer, Library Assistant**

May 2017 - May 2019 | Boston, MA

Developed and maintained community software for Olin Library.  
Helped create an efficient process for whole-library inventory project.  
Built check-out and shelving system for multimedia equipment.  
Automated library procedures to increase efficiency and gain data insights.

## PROJECTS

### **Public Opinion Receipt Printer**

Built and programmed a receipt printer bulletin board that collected answers to poll questions via SMS.  
Displayed at [CultureHouse](#) pop-up space in Harvard Square, received 200+ responses from passersby.  
Created another version for Olin library and community events.

### **Coffee Events Notification App**

Programmed a progressive web app for showing upcoming coffee events at Olin. 30 students (~9% of the school) subscribed to web push notifications.  
Implemented the app with multiple stacks (Python Flask + React; Node.js Express + React; Ruby on Rails + Vue; Elixir Phoenix).  
See current version at [events.verynice.party](#).

### **BoardBot Project Team, Embedded Programmer and Project Manager**

Designed and built a CNC whiteboard drawing robot with a 4 person team.  
Developed electrical, mechanical, and software components.  
Documented build process and replication instructions on [scrumbledeggs.github.io](#).

## EDUCATION

### **Olin College of Engineering** **B.S. Engineering** **with Computing**

Needham, MA  
Graduated May 2021  
GPA: 3.8

## SKILLS

### Software

Python · Phoenix (Elixir)  
Docker · PostgreSQL  
JavaScript · Node.js  
Embedded C · ESP8266  
Linux user/enthusiast

### FABRICATION

Onshape CAD

### Machine Shop

MIG Welding  
Sheet Metal Fabrication  
Laser Cutter  
3D Printer

### Wood Shop

CNC Router (Shopbot)

## LANGUAGES

Fluent Czech  
Conversational Spanish