

# Alicia Bochnak

## EDUCATION

### UNIVERSITY OF MASSACHUSETTS, AMHERST BS IN INFORMATICS

Minor in Computer Science  
Concentration in Data Science  
Graduated May 2020  
GPA: 3.34/4.0

## SKILLS

### PROGRAMMING

Python • SQL • Java •  
Ruby on Rails • HTML/CSS  
• React • Django  
• Javascript • MongoDB  
• Unix • Bootstrap • Flask  
• Ruby • Docker • PostgreSQL

### TOOLS

Git • Axure RP • Adobe Photoshop •  
Adobe XD • Bitbucket • Power BI •  
Teradata • Tableau

## LINKS

[github.com/abochnak](https://github.com/abochnak)  
[linkedin.com/in/alicia-bochnak](https://linkedin.com/in/alicia-bochnak)

## EXPERIENCE

### LIBERTY MUTUAL INSURANCE | ASSOCIATE SOFTWARE ENGINEER

June 2020 - present | Boston, MA

- Built a cross-referencing application to sync and compare data between data sources using React, Django, MongoDB, and AWS.
- Created initial design wireframes for the application and designed an algorithm to generate similarity scores between records.
- Proposed and wrote an application to view Boston property crime statistics with per-neighborhood details using LeafletJS, SQL, React, and Java Spring.
- Migrated data replication pipeline from PostgreSQL to MySQL by rewriting SQL queries and modifying CloudFormation templates.

### LIBERTY MUTUAL INSURANCE | TECHSTART INTERN

May 2019 - August 2019 | Dover, NH

- Modified existing analytics dashboard for claims management in Power BI
- Used Axure RP, Adobe Photoshop, and Adobe XD to create mockups and prototypes for an internal IT status portal.
- Developed the status portal frontend using HTML, CSS, and Angular.

### UMASS AMHERST INFORMATION TECHNOLOGY DEPARTMENT RUBY ON RAILS DEVELOPER

January 2018 - March 2020 | Amherst, MA

- Worked on a team of three to create and maintain a Ruby on Rails application for internal HR and IT management.
- Created an end to end system for posting open positions, acquiring candidates, scheduling interview times, and onboarding for the hiring process.
- Revamped entire testing suite of 500+ tests using the testing suite, Rspec.

## VOLUNTEER

### HACKUMASS/HACKHER413 | HACKATHON TECHNOLOGY DIRECTOR

April 2019 - May 2020 | Amherst, MA

- Served as a volunteer organizer for two events with over 1,300 participants.
- Managed weekly standups for a team for eight student developers, created stories, and regularly reviewed pull requests.
- Responsible for open-source technology used by multiple hackathons and thousands of hackathon hackers.

## PROJECTS

### CLAIMS FILING APPLICATION | Liberty Mutual Intern Hackathon Winner of Wild Card Category

- Built a web application in 12 hours which uses a machine learning model to process insurance claims.
- Created UX mockups to simplify the process of filing a claim.
- Developed the application frontend using HTML, CSS, and React.

### CAMPAIGN TWEETS DATA ANALYSIS | Data Science Coursework

- Created a dataset on the 2016 election by cleaning and filtering candidate tweets using DPlyr.
- Used sentiment analysis to compare sentiment between Donald Trump and Hillary Clinton tweets using sentiment-R package.
- Compared sentiment between Android and iPhone-sent tweets on Donald Trump's Twitter account.