

# Keith Lovett

<https://kdlovett.github.io/keiths-site/>

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## EDUCATION

### Boston University

BA in Computer Science

May 2019 | Boston, MA

## SKILLS AND ACTIVITIES

**Member of** BU's Global House ·

BU's Writer's Workshop

**Volunteered at** BUxRed Hat's

CO.LAB event

**Awarded** "Most Innovative

Research Project" by popular vote,  
Data Systems Architectures Spring  
2019

**Speaks** German (Intermediate) ·

Spanish (Beginner)

**Hobbies Include** Cross-cultural  
communication · Creative writing ·  
Community-building activities

## LINKS

Github:// [kdlovett](https://kdlovett)

LinkedIn:// [keith-lovett](https://keith-lovett)

## SOFTWARE DEVELOPMENT EXPERIENCE

### Hashpath | Software Development Intern

July – November 2018 | Melrose, MA

#### Custom Alexa Skill (Node JS · TypeScript · AWS)

- Expanded database model to handle 2 new custom Alexa request types.
- Utilized AWS Lambda serverless computing to link Alexa request types with database queries.

### Liggins Institute | Undergraduate Research Assistant

Feb – June 2018 | Auckland, NZ

#### ML Analysis of Metabolomics Data (Matlab)

- Performed gradient descent on correlation matrices formed from data recorded after weeks 15 and 20 of preterm births.
- Recorded 4 metabolites of interest, suggesting focus for future research.

#### Conversion of Analysis Processes to Open Source (R)

- Converted computationally heavy portions of existing Matlab code to R.
- Discussed performance differences and potential future work in write-up.

## Coursework and Projects

### BU fall 2018, HeartBeats (Node JS · MongoDB)

- Wrote web app backend in team of 4; forms Spotify track list based on user's Fitbit heartrate data and tempos of tracks user has interacted with.

### BU fall 2017, MyShell (C)

- Worked in team of 2 to replicate main features of a shell, such as background execution and redirection of I/O to other files and programs.

### BU fall 2017, Handling Winter Storms in Boston (Python · MongoDB)

- Wrote 2+ backend functions in team of 4 for web app capable of visualizing high priority snow plowing areas in Boston. Produces heat-map based on K clusters of important buildings. Marks distance from centroids of heat-maps to high priority routes. (Routes which together satisfy constraint that each road connects to 1+ route.)

### Summer 2017, Lamport's Tic-Tac-Toe (Javascript)

- Created a game of online tic-tac-toe that writes match data to Google Sheets.

## OTHER WORK EXPERIENCE

### Bellevue Golf Club | Groundskeeper

May 2016 – Aug 2017 | Melrose, MA

- Maintained excellent course conditions with crew of around 10.
- Expediently set up and broke down various events.

### Intergenerational Language Program | English Tutor

Aug – Nov 2015 | Chelsea, MA

- Co-taught English and relevant civics topics to 15+ ESL parents.
- Attended weekly meetings to discuss cross-cultural communication and effective teaching strategies.