

BRIAN OPPENHEIM

✧ 11/10/1997
📧 [Web: https://brianoppenheim.github.io/](mailto:brian.oppenheim@brown.edu)
@ brian_oppenheim@brown.edu

🏠 69 Brown St. Box 8017,
Providence 02912, U.S.A
☎ 206-795-2442
🌐 [https://github.com/brianoppenheim?](https://github.com/brianoppenheim?tab=repositories)
[tab=repositories](https://github.com/brianoppenheim?tab=repositories) (Most
projects are private.
Contact me and I'll add
you)



WORK EXPERIENCE

Software Developer 06/2017 - present
Salomon Research Group- Brown University Medical
School, Providence

- Built a high throughput pipeline in Java to transfer, clean, and analyze proteomic data that significantly increased critical data yield (10-40%) and opened the laboratory to running state of the art TMT experiments.
- Wrote an app to perform False Detection Rate filtering with NodeJS.

Fellow 12/2016 - 01/2017
Tel Aviv Global Tech Fellowship, Tel Aviv, Israel

- One of < 10% of students chosen to learn and apply machine learning, data analysis, and iOS development while working with startups in the Israeli tech ecosystem.
- Created a food waste management tool for Tel Aviv meetups.

Field Agent 09/2012 - 07/2017
King County Search and Rescue Association, Seattle,
U.S.A

- Provided dynamic healthcare to endangered civilians under taxing situations.
- Injuries ranged from fractured ankles to anaphylactic shock and cardiac arrest.
- Collaborated as part of a team to interact with individuals in a genuine way.
- Received annual Top Responder award for dedication and excellence within the organization

AWARDS

- 1st Place, Visual Design at Hack @ Brown
- Top Responder of 2013, King County Explorer Search and Rescue
- Eagle Scout

TECHNOLOGIES

Java C Python TensorFlow
HTML/CSS Scala NodeJS

EDUCATION

Computer Science - GPA 3.7 09/2016 - 05/2020
Brown University, Providence, U.S.A

Relevant classes (** = Currently Enrolled)

- CS 0330: Computer Systems and Architecture (C/Assembly)
- CS 0320: Software Engineering (Large scale projects in Java/JS)**
- CS 1470: Deep Learning (Python/Tensorflow)
- CS 1420: Machine Learning**
- CS 1300: UI/UX (ReactJS/HTML/CSS)
- CS 170/180: Year long introduction to programming/algorithms (Java, Scala, Ocaml).
- Maths: Discrete, Linear Algebra, Stats**, Calculus.

PROJECTS

Bash Command Line

- Used C to write a working version of the bash command line that can navigate, perform builtin commands, run programs, keep track of multiple jobs, reap, handle signals and file redirection, and more.

XML Search Engine with Pagerank

- Built a search engine in Scala that parses a corpus of XML documents (in this case, wikipedia pages) and returns up to 10 of the most relevant docs based on a user query from a REPL.

Dynamic Memory Allocation Package

- Built a working version of C's dynamic memory allocation package, including fully functional versions of malloc, free, and realloc.

Sequence to Sequence Machine Translation

- Used an RNN to construct a seq2seq machine translation model that can translate French sentences to English with roughly 70% word per word accuracy.