

# Benjamin Bearce

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Somerville, MA 02143  
832-434-3006

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## PROFESSIONAL SUMMARY

Turning specialized knowledge into tools that enrich the human experience is my passion. I want to make it easier for others to access information.

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<https://github.com/bbearce>

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## EDUCATIONAL BACKGROUND

### Boston University

Masters of Electrical and Electronics Engineering  
2012 – 2013  
GPA: 3.4

### West Virginia University

Bachelor of Science in Electronics Engineering  
2007 – 2011  
GPA: 3.5

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## PROFICIENCIES

- Python:
  - Django
  - Flask
  - Pandas/Numpy/SciPy
- Javascript:
  - Vue.js
  - Node.js
  - D3.js
- Databases:
  - Postgres
  - MSSQL
  - CouchDB
- Container Technology:
  - Docker
  - Podman
  - Singularity

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## CLOUD EXPERIENCE

- Azure
- AWS
- Google Cloud
- Heroku

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## PROFESSIONAL EXPERIENCE

### Full Stack Web Developer

#### The QTIM Lab at The Martinos Center

May 2019 – Present

- Built and maintain software to extend research tools to clinical users in Azure \ AWS \ Google Cloud \ Heroku using:
  - Django\Flask
  - Javascript\Vue.js\jQuery
  - Postgres\MSSQL\SQLite\CouchDB
  - Nginx
  - RabbitMQ\Celery
- Create public-facing web-tools to exhibit our imaging research
- Host online machine learning competitions:
  - Using an open source project and adding to it we host our own machine learning competitions. Custom features added include:
    - Adding the ability for docker image submissions using Azure Container Registries to store participant images
    - Added file upload chunking feature for large submission size
- Build our own in house annotation tools to help create more consistent annotation agreement among radiologists and provide general classification mechanism for creating train\val\test datasets.
- Created Community Help App that mimics craigslist for MGB during COVID to allow MGB employees a way to contact each other. This utilized **Vue.js**, **SQLite** and **Flask**
- Manage multi-server GPU clusters and data storage devices

### Sr. Core Analytics Engineer

#### AIR-Worldwide

March 2018 – May 2019

- Developed python framework to process model industry losses from our research team and validated data changes match expectations
- Created SQL algorithm to validate our reinsurance product's financial engine. Previously, validation took hours to calculate the same logic in python.

### Core Analytics Engineer

#### AIR-Worldwide

July 2013 – March 2018

- Created Rmarkdown reports documenting the testing of our industry loss files.
- Used R and automated the creation of large scale exposure data for use in regression testing.