Benjamin Bearce

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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

EDUCATIONAL BACKGROUND

Boston University
Masters of Electrical and Electronics Engineering
2012 - 2013
GPA: 3.4

West Virginia University
Fort Leburg
Bachelor of Science in Electronics Engineering
2007 - 2011
GPA: 3.5

PROFICIENCIES

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

CLOUD EXPERIENCE

- Azure
- AWS
- Google Cloud
- Heroku

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.