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

PROFICIENCIES

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

CLOUD EXPERIENCE

- Azure - Blobs, VMs, Container Registries, Kubernetes
- AWS - EC2, EBS, S3 Buckets
- Google Cloud - VMs, Maps and Geolocation APIs
- Heroku

PROFESSIONAL EXPERIENCE

Senior Full-Stack Web Developer
The University of Colorado - Anschutz Medical Campus
June 2022 - Present

- Responsible for supporting the division's web development and programming activities.
- Developing scalable software products with flexible REST APIs.
- Providing mentorship and guidance to our growing engineering team.
- Building open source, in-house annotation tools to assist in creating train\val\test datasets. These are made with Vue.js, CouchDB and Flask. Integration with image PACS and other open-source tools like OHIF is our current focus.
- Continue MedICI work listed below but merge with Codabench (a newer version of Codalab with this git repo) and contribute to their open-source code base.

Programmer Analyst
The QTIM Lab at The Martinos Center
May 2019 - June 2022

- Built and maintain software to extend research tools to clinical users in Azure \ AWS \ Google Cloud \ Heroku
- Host online machine learning competitions:
  - Using Codalab and adding to it we host machine learning competitions under the organizational name MedICI (Medical Imaging Challenge Initiative). Custom features added include:
    - Adding the ability for docker image submissions using Azure Container Registries.
    - Sftp data storage.
    - Provide custom annotation software for generating challenge ground truths.
- Manage Ubuntu GPU clusters and data storage devices
- Create public-facing web tools to exhibit our imaging research

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
- 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

- QA Industry reinsurance losses experienced due to natural Catastrophes.