

Mosadoluwa Obatusin

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<https://github.com/mobatusi>

EXPERIENCE

[Mount Sinai Medical Center](#)

10/10/2018 – Present

The Center for Advanced Circuit Therapeutics one-of-a-kind clinical and research hub with a mission to translate research into personalized treatments to correct brain circuit abnormalities for improved mood, motor, and cognitive functioning, and to maximize long-term outcomes.

Programmer Analyst II

Supports efforts to ensure that data standards are developed and maintained, including developing control applications for data acquisition and cloud-based applications for data exploration.

- Developed two application in C# using MVVM design pattern for at-home and in-clinic research to investigate Deep Brain Stimulation (DBS) for depression.
- Managed Linux computing cluster, configuring Bright system hardware and installing scientific software for high performance computational projects.
- Managed and built data analysis pipelines using CouchDB and Python for the exploration of putative biomarkers used in DBS for depression.

[Onye](#)

03/20/2020 – 01/29/2021

We are a Patient Relationship Management system for clinics and hospitals in emerging markets to automate their front-office workflow and to aggregate patient experience data for better service delivery.

Co-Founder

Responsible for all the tech-related processes and recruitment for technical positions

- Built company's Minimum Viable Product (MVP) resulting in over 1000 appointments scheduled.
- Led the technical team on assigned projects giving technical oversight and coordination of cloud infrastructure and associated services.
- Architected the company's technological plans.
- Oversaw company's data security and management.

Emory University - Depression Biometrics Lab

01/10/18 – 09/21/18

A psychiatry and behavioral sciences lab with the objective of defining brain mechanisms underlying major depression and mediating its treatment via the development of algorithms that will discriminate patient subgroups, optimize treatment selection, and provide markers of disease and relapse vulnerability.

Data Analyst

Supports efforts to ensure that data standards are developed and maintained.

- Created the first GUI application in MATLAB for deep brain stimulation research, reducing data collection time by over 50% and minimizing interoperability errors from over 5 minutes to 10-60 milliseconds.

https://github.com/mobatusi/NXSD_GUI

- Managed the transfer of over 20 TB of research data from local servers to the distributed database CranialVault Cloud (CranialCloud).

U.S. Department of Veterans Affairs Veterans

April 2014 – August 2016

The War Related Illness and Injury Study Center (WRIISC) is a national program dedicated to Veterans' post-deployment health concerns and unique health care needs.

Biomedical Engineer

Supports ongoing research aimed to improve the health of Veterans by maintaining NASA-designed rotational chair, developing analysis pipelines and ensuring a safe and productive working environment.

- Developed MATLAB scripts to pre-process data, improving data quality by over 90%.
- Implemented image processing algorithm to reduce noise in ultrasound images, thus salvaging 52% of messy data.
- Initiated and designed an Excel userform using VBA that reduces data entry from hours to minutes and minimized frequent errors to less than 5%.

EDUCATION

Master of Engineering (Biomedical Engineering) MEng. [Cornell University](#) (Ithaca, NY)

- GPA: 3.3

Bachelor of Science (Biomedical Engineering) B.S. [New York Institute of Technology](#) (New York, NY)

- GPA: 3.7
- Summa Cum Laude, Dean's List

OTHER RELEVANT INFORMATION

Languages: English, Yoruba

Computer Skills: Python, MATLAB, R, C#, MySQL, Tableau, Excel, Git, Docker, Linux, React, Redux, JavaScript, HTML, CSS, Google Cloud Platform (GCP)

Awards: Martin Luther King Jr. Award — [NYIT](#) (2012)