

✉ nathanielbd@gmail.com

Nathaniel Budijono

Aspiring computational scientist



{ <https://github.com/nathanielbd>

<https://linkedin.com/in/nathanielbd>

<https://nathanielbd.github.io>

Objective

Seeking machine learning, computational biology/chemistry internships and research opportunities

Education

University of Minnesota-Twin Cities

Bachelor of Science, Computer Science
and Mathematics
Expected 2022

Achievements

- ❖ GPA of 3.8
- ❖ Honors Student
- ❖ ACT Score: 35/36
- ❖ Computer Science Scholarship (1 of 4 awardees), Honors CSE Scholarship, CSE Scholarship
- ❖ Best ML, AI, Social Good hack @Hacktech 2020
- ❖ Winner, Wells Fargo Campus Analytics Challenge

Coursework

- ❖ Data Mining, Machine Learning, Deep Learning
- ❖ Computational Genomics, Systems Biology
- ❖ Biochemistry, Quantum Mechanics
- ❖ Genetics, Scientific Research, Cryptology

Skills

Languages

Python, Java, C, R, Scala, SQL, Bash

App Frameworks

Flask, React, React Native, SocketIO

Data

Pandas, Numpy, PyTorch, Databricks, Sklearn

DevOps

Git, Docker, Linux, Google Cloud Platform, Datadog, Jenkins

Other

LaTeX, vim

Work Experience

Rally Health

Software Engineer Intern

May-Aug 2019

- ❖ Created a utility for next-generation data pipeline to gauge data throughput, monitor job duration, and track which rows failed which data validation. [Scala](#), [Datadog API](#), [Databricks](#)
- ❖ Created a comprehensive and responsive web dashboard with pipeline health and performance metrics for production and next-generation data pipeline. [Airflow](#), [Flask](#), [SQLAlchemy](#), [nvd3.js](#)
- ❖ Created an ETL job to process ledger data from incentives program and performed end-to-end testing. [Spark](#), [SQL](#), [Redshift JDBC](#)

University of Minnesota - CSBIO Lab

Undergraduate Researcher

Dec 2018-

- ❖ Created a pipeline for visualizing genetic interaction networks and investigated machine learning methods to predict gene function from a genetic interaction network. [Sklearn](#)

Community

University of Minnesota-Twin Cities

Society of Asian Scientists and Engineers

Lab Director

Jan 2020-

- ❖ Serve as lead project manager, architect, and programmer for a React Native mobile app, React web app for navigating the confusing maze of tunnels on campus.
- ❖ Create machine learning, control systems, and scientific programming workshops to facilitate extracurricular learning.

App Developers Club

Curriculum Director

Dec 2019-

- ❖ Develop workshops to teach building an application from using React Native, React, SocketIO and Flask

I am an American citizen