

## || Academic Experience | Cornell University

BA Computer Science – May 2022

GPA: 4.0 – Dean's List – All Semesters Awarded

## || Technical Skills and Abilities

### Advanced

Python  
Apache Airflow, Spark  
ETL Pipelines  
Docker, Kubernetes, Jenkins  
Algorithm Design and Analysis  
SQL, NoSQL

### Intermediate

Vue.js  
Node.js  
GCP, IBM Cloud  
Terraform  
TDD with Jest.js  
Functional Programming (OCaml)

### Novice

AWS  
Figma Prototyping  
React.js  
Java  
PHP (Laravel)

## || Work and Community Experience

### **Full-Stack Software Engineer (Formerly Co-op/Intern) – IBM – Armonk, NY \*remote (Summer 2021-Present)**

- Backend and Cloud Data Engineering Work in Enterprise Performance Management
  - Develop Python backend to transform data in IBM's internal ETL data pipelines
  - Dockerize microservices and manage builds and deployments with Jenkins
  - Use Kubernetes to maintain and assess statuses of microservices for data pipelines
  - Led and delivered project to increase data ingestion frequency by 5x to improve data availability for users
  - Improved ingestion framework stability and decreased job failure incidence by 4x
  - Control and monitor platform performance hosted on IBM Cloud
- Frontend Work in Enterprise Performance Management
  - Regularly design and implement modular Vue.js components in order to dynamically display data
  - Take stories every day to fix bugs, implement new Vue components, and write Jest unit tests
  - Create API endpoints and NoSQL Cloudant connections using Node.js
  - Manage a team of interns to create a release regression validator to increase release frequency
- General
  - On-call for production support, regularly fixing production issues on weekends as needed
  - Attend daily SCRUMs per our biweekly agile sprints maintained on Jira
  - Peer review code and perform regression testing with Github Enterprise and Jira

### **Subteam Co-Lead – Cornell Engineers w/o Borders Digital Agriculture – Ithaca, NY (2020-2022)**

- Led team to create a React.js web app to showcase our project and provide documentation
- Managed a small team to develop a Kivy Python app that plant breeders will use to identify diseased regions of plants and plot routes for a land rover to follow and investigate these infected regions
- Employed a TensorFlow mask rCNN for a UAV to detect lesions in plants and to be deployed in developing countries whose maize crop is afflicted by Northern Leaf Blight
- Used data augmentation and a clustering algorithm to spot regions of early disease in maize crop

### **Junior Developer Intern – McCurdy Auction Real Estate Specialists – Wichita, KS (Summer 2020)**

- Researched, proposed a design, and used Postman testing to begin implementing a RESTful API to increase production speed and provide better documentation for future new employees
- In helping maintain Laravel and Vue.js website, regularly fixed issues assigned through Gitlab
- Created migration generation system to improve testing on database changes

## || Interests

Tech for Good | Technical advisor for finEQUITY.org

Music of all kinds | Jazz guitarist of 12 years and president of Cornell After Six Neosoul Band

Coffee | Barista at Amit Bhatia Libe Café in Fall 2021