

# Brady Volkmann

Software Engineer

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## || Academic Experience | Cornell University

BA Computer Science – May 2022

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

## || Technical Skills and Abilities

<u>Advanced</u>	<u>Intermediate</u>	<u>Novice</u>
Python Laravel Apache Airflow, Spark, ETL Docker, Kubernetes, Jenkins Relational DBs (MySQL)	AWS React.js Vue.js Node.js NoSQL	GCP Figma Prototyping Java

## || Work and Community Experience

### Backend and Data Engineer – eQual Public Benefit Corporation – San Francisco, CA \*remote (Fall 2023-Present)

- Building the founding tech team as eQual's first full-time software developer
- Architecting and implementing data models and ETL pipelines that drive the delivery of eQual's core reporting product supporting progressive ballot initiatives
- Developing eQual's SaaS platform built on AWS, Laravel, and React.js through ideating and implementing novel features for our clients and our team to use
- In partnership with our team's other engineer, designed and implemented an OCR service and fuzzy matching algorithm to match large volumes of handwritten form data to canonical data
- Creating eQual's DevOps to ensure the longevity and maintainability of its technology

### 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
- Used data augmentation and a clustering algorithm to spot regions of early disease in maize crop

## || Interests

Music of all kinds | Jazz guitarist of 14 years

Coffee | Barista at Amit Bhatia Libe Café in Fall 2021