

# Ammon Knaupp

Open to relocate · (971) 724-8955 · adknaupp@gmail.com · [LinkedIn](#)

## EDUCATION

### Brigham Young University

Bachelor of Science: Bioinformatics

Apr 2024

Provo, UT

- Minor in German

### MIT Institute for Data, Systems, and Society

Data Science and Machine Learning Program

Completion by June 2025

Online

## SKILLS

- Tools: Python, Bash, SQL, R, Excel, Linux/Unix, Splunk, GitHub, Jira
- Techniques: Machine Learning, Agile Methodology, Next-Generation Sequencing

## EXPERIENCE

### Myriad Genetics

*Technology Intern*

Jul-Sep 2024

Salt Lake City, UT

- Designed an ETL workflow and Splunk dashboard to make customer engagement observable.
- Built frontend app prototypes using JSM and FastUI/FastAPI to automate onboarding processes.
- Collaborated with engineers using GitHub and agile methodology to develop Python software.

### BYU Genomic and Bioinformatic Center

Sep 2020-Jun 2024

*Research Assistant*

Provo, UT

- Analyzed metrics from sequencing instruments and bioinformatics pipeline outputs to ensure data quality.
- Designed and built Python application to control access to user data, shortening manual process by 95%.
- Performed wet lab tasks (e.g. HMW DNA extractions, fragmentation, PCRs, complex library preps).

### BYU Department of Chemistry

Feb-Sep 2020

*Research Assistant*

Provo, UT

- Automated computational chemistry workflows using Python in a distributed computing environment.
- Analyzed molecular dynamics datasets from computational chemistry simulations.
- Wrote quarterly proposal/progress report to qualify my project for undergraduate research award funds.

### Business Credentialing Services

Apr 2019-Feb 2020

*International Compliance Analyst*

Provo, UT

- Maintained documentation of vendor registrations and continuous insurance coverage.
- Communicated with external clients in Dutch and German via outgoing phone and email.
- Localized vendor registration portal for Dutch and German speaking countries.

## PROJECTS

### Data Access Control Service

- Devised creative solution that extends existing features by integrating an app that provides additional services.
- Designed Nginx server and FastAPI app to route requests, manage Globus resources, and modify filesystem.
- Performed unit and integration testing and deployed FastAPI application and Nginx on Linux server.

### Genetic Analysis Tool

- Developed workflow for generating haplotypes from long-read (PacBio) amplicon sequence datasets.
- Generated and analyzed haplotype data in the context of research hypotheses.
- Built CLI to automate workflow for getting haplotype data from raw amplicon reads.