

Ammon Knaupp

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EDUCATION

Brigham Young University

Bachelor of Science: Bioinformatics

- Minor in German

Apr 2024

Provo, UT

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

Research Assistant

Sep 2020-Jun 2024

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

Research Assistant

Feb-Sep 2020

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

International Compliance Analyst

Apr 2019-Feb 2020

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.