Nicholas Fleischhauer

(630) 433-7392 | nicholasfleischhaue@berkeley.edu | https://github.com/Unobtainiumrock

EDUCATION

University of California, Berkeley   **Expected Graduation: May 2025**
B.A. in Data Science
Relevant coursework: Data 140 Probability for Data Science, Modern Statistical Prediction and Machine Learning, Principles and Techniques of Data Science, Data Structures & Algorithms, Structure and Interpretation of Computer Programs, Multivariable Calculus, Linear Algebra Done Right (Axler), Differential equations, Discrete Mathematics

TECHNICAL SKILLS

Security Clearance: Maintained a secret-level security clearance for 5 years in the U.S. Navy
Languages: JavaScript, Java, Python, C++
Frontend: React, Redux, HTML, CSS, **Backend:** PostgresSQL, MongoDB, Node.js
Certifications: Agile

EXPERIENCE AND PROJECTS

NIST Spectral Imaging Project | Machine Learning Engineering, Chief Architect   Aug 2023 – Present
- **Designed a Neural Network** for Image Cleaning using residual learning and leveraging GPU + batch processing
- **Code Review & Documentation** added Pydocs and Python type hinting to hundreds of lines of code
- **Onboarding & Interviewing** interviewed incoming team candidates and designed the interview process
- Crafted the project's repository and documentation from scratch
- Managed a team of other engineers and **applied principles of** Agile to our development cycle
- Generated weekly progress reports, and maintained project documentation
- Liaise with NIST personnel for technical discussions and assistance to integrate their expertise into the project's goals

Data Discovery Quantum Computing | Data Visualization Project Lead   Aug 2022 – Dec 2022
- **Project Lead** for analysis that aimed to identify key parameters and characteristics of **quantum computing** companies
- **Oversaw exploratory data analysis phase** and guided the development of a user-friendly dashboard
- Led the team in **creating data visualizations using d3.js**
- Demonstrated **leadership skills and focus on user experience**, driving project success
- Leveraged **web development and UI/UX** to make a **user-centric** dashboard for users to make data-driven decisions

Represent Dev | Software Engineer   Jul 2018 – Jul 2019
- Created and maintained REST API endpoints for **a stock trading app in Node.js**
- **Managed an AWS EC2** instance with Amazon Linux 2 AMI to host the company website to handle 100+ daily visitors
- Configured and **maintained the company's SSL certificates**

Career Deer | Full Stack Web Developer   Jun 2018 – Jul 2019
- Back-end lead for a team of three engineers to deliver the minimum viable product in two weeks
- **Created a dashboard that allowed users to systematically track their job hunting progress**
- **Built a web-scraper** for aggregating hundreds of job posts, focusing on delivering relevant and timely information

OTHER NOTABLE ACHIEVEMENTS

Private Client | Data Pipelines Engineer   Jun 2023 – Aug 2023
- Assisted a corporate consulting team in modeling their Fortune500 client's workflow using linear maps, translated it into an automated workflow using Alteryx
- **Programmatically generated status reports in excel** , saving the team a **cumulative 180 hours** of manual effort