Nicholas Fleischhauer

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EDUCATION

University of California, Berkeley   **Expected Graduation: May 2024**
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 & 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
- Crafted the project's repository and documentation from scratch
- **Code Review & Documentation** added Pydocs and Python type hinting to hundreds of lines of code
- **On boarding & Interviewing** interviewed incoming team candidates and designed the interview process
- Managed a team of other engineers and **applied principles of A**gile to our development cycle
- Generated weekly progress reports, and maintained project documentation
- Liaise with NIST personnel for ongoing 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 a analysis which 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 prior **web development and UI/UX** skills to make a **user-centric** dashboard for users to make data-driven decisions

Represent Dev| Berkeley, CA - 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 hundreds of daily visitors
- Configured and **maintained the company's SSL certificates**

Career Deer | San Francisco, CA - 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

Data Engineering Aid| Software Engineer Berkeley, CA   Present
- Created a tool that when given a transaction schedule, will generate a corresponding conflict graph and table

Video Game | Software Engineer Berkeley, CA   Aug 2022 - Aug 2023
- Created a game with randomly generated, explorable, interactive worlds using binary space partitioning trees

OTHER NOTABLE ACHIEVEMENTS

Private Client | Data Pipelines Engineer   Jun 2023 - August 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.

MILITARY EXPERIENCE

United States Navy - Leading Petty Officer & Hospital Corpsman   Jan 2009 - Jan 2014
- **Developed and implemented data management systems** to streamline patient medical bills and radiologic exams, resulting in improved efficiency and cost savings.
- **Managed a team ensuring Joint Commission compliance**, prioritizing safety, and education for over 90 staff members.
- Created a vehicle usage tracking system for 50 hospital staff vehicles, optimizing resource allocation.
- Improved review and archival process for **30,000 medical records** at Naval Health Clinic Great Lakes, **saving $15,000**.
- **Analyzed 8,000 recruit medical records with 98% accuracy**, saving **$100,000** by identifying disqualifying medical conditions.