

Nathan Liu

(925) 786-3685 | nathan.dtliau@gmail.com | linkedin.com/in/nathan-dtliau | github.com/n8liu | Danville, CA

EDUCATION

University of California, Berkeley

May 2026

Bachelor of Arts in Data Science, Minor in Computer Science

GPA: 3.67/4.00

- **Coursework:** Structure and Interpretation of Computer Programs, Data Structures, Machine Structures, Introduction to Data Science, Probability for Data Science, Principles & Techniques of Data Science, Introduction to Full-stack Web Development

PROJECTS

Spotify Sync & Scheduler | *React.js, Node.js, Express.js, MongoDB, Git*

- Developed a two-in-one live Spotify playlist collaboration and scheduling planner application that utilizes Spotify Web API.
- Spotify playlist collaboration integrates multiple users to develop a consensus-liked playlist and similar-liked music based on genre, artists, and likes.
- Designed an intuitive drag-and-drop interface for creating personalized weekly schedules with real-time updates.
- Integrated CI/CD pipelines using GitHub Actions to automate testing, linting, and simplifying the deployment process.

PokeAPI & BartAPI | *Python, JavaScript, HTML/CSS*

- Integrated pokeapi.co to fetch and display Pokémon details such as abilities, stats, types, and evolution chains with a user-friendly.
- Developed efficient API integration workflows through Python Requests to retrieve and process data.
- Connected to api.bart.gov to provide real-time transit schedules and alerts, ensuring accurate and up-to-date information for users.
- Designed and streamlined methods for parsing and handling JSON responses, ensuring seamless integration and optimized data cleaning.
- Developed search and filter features to allow users to find specific Pokémon or customize transit pathing and scheduling in real-time.

Database Inventory Analytics | *MySQL, Python, Pandas, Matplotlib*

- Designed a centralized SQL database consolidating sales and inventory data for real-time tracking.
- Indirect integration with POS system and data integration with mysql.connector, consolidating sales and stock data together visually using Pandas and Matplotlib.
- Benefited long-term inventory maximization which created a roughly 15% decrease in spending on inventory and streamlined employee schedules to maximize profit and furthermore minimize spending.

Personal Website | *Next.js, TypeScript, Git, Cloudflare* | nliu.org

- A simple personal website built from scratch using Next.js and TypeScript
- Leveraged Cloudflare hosting to deploy the website, integrating analytics to track user engagement with a custom domain.
- Designed a modular and maintainable architecture, allowing for effortless updates and content scalability with Git and Github.

EXPERIENCE

Happy Lemon USA

Sept. 2021 – Sept. 2024

Shift Manager

Danville, CA

- Responsible for leading 14 employees and scheduling employees for three years ensuring smooth operations and productivity.
- Trained and hired 7 staff members to optimize workflows for front and back-of-house.
- Resolved issues, customer concerns, and communicated frequently to create a positive work environment.

TECHNICAL SKILLS

Languages: Python, SQL, C++, Java, JavaScript, HTML/CSS, TypeScript, Scheme

Framework & Libraries: Next.js, React.js, Express.js, Node.js, MongoDB, Pandas, Matplotlib, NumPy, Seaborn

Developer Tools: Git, Jupyter Notebook, GitHub, Cloudflare, AWS, VS Code, IntelliJ, Figma, Microsoft Office, Adobe Products