

Noah Abji

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Summary of Qualifications: Motivated computer science student who is self-driven and has experience in web development (full stack/backend), data engineering, data pipelines, object oriented programming, databases (SQL/NoSQL), leadership and has a software development skill set. Received the MathWorks Scholarship in 2022 for a strong record in STEM.

EDUCATION

University of California, Berkeley

Expected Graduation: May 2025

Bachelors of Arts - Computer Science, Data Science

Berkeley, CA

- **GPA:** 4.0/4.0 | Dean's List - College of Letters and Science
- **Organizations:** Political Computer Science | Education Chair
- **Relevant Coursework:** Data Science (Linear Programming/Optimization Mathematics), Object Oriented Programming, Data Structures and Algorithms, Discrete Mathematics, Probability Theory, Linear Algebra, and Multivariable Calculus

WORK EXPERIENCE

Full Stack Web Developer Intern, Part Time

Link Health

September 2023 - Present

- Developing a web application to remotely register individuals for all welfare programs for which they are eligible.
- Leveraging **Svelte**, **JavaScript**, and **TypeScript** for client-side development, and **PostgreSQL** as a database.
- Contributing to the server-side/backend development and web infrastructure in **NodeJS** and **Express** using a RESTful API.
- Implementing algorithms based on decision trees to efficiently determine eligibility for users for over 30 programs.
- Creating secure user logins with encrypted passwords in the SQL database and middleware for verification and authentication along protected API routes using Express.js and data modeling.

Data Science Team Lead (Intern), Part Time

Link Health

Dec 2022 - Present

- Managed and mentored a team of 11 data scientists at Link-Health to improve targeting and research capabilities.
- Leveraged **Pandas**, **Plotly**, and **Scipy** as tools for data pipelines, visualization, and data analysis for US Census Bureau data.
- Implemented asynchronous code to increase data scraping efficiency from the US Census Bureau by 97.8%.
- Training a multilinear model (machine learning) to predict certain health outcomes per ZCTA (linear programming).
- Successfully identified over 70,000 contacts for outreach and manipulated over 3 million rows of unique data.

PROJECTS & OTHER EXPERIENCE

AI-Powered Search Engine - Generative AI | [Github](#)

- Implemented an AI-driven search engine which effectively synthesizes or individually summarizes search results
- Full stack web application using a RESTful API with error handling, OpenAI LLM API and Metaphor API integration, and dynamically renders data in an elegant user interface
- **Utilized:** Node.js, Express, JavaScript, TypeScript, ReactJS + Vite, REST API, GIT, Metaphor API, OpenAI API, HTML/CSS

Natours | [Github](#)

- Completing Udemy's [Node.js, Express, MongoDB & More: The Complete Bootcamp 2023](#).
- Implementing authentication, payments, data aggregation, and building a RESTful API for a mock tour company.
- **Utilizing:** Node.js, Express, MongoDB, Mongoose, Stripe, Postman, Heroku, Nodemailer, RESTful API, GIT, SOAP.

GoPastries Website | [Github](#)

- Solo-developed the GoPastries LLC website (<https://www.gopastries.com>) for a local baking business.
- Communicated with the client to maintain the website to provide an attractive & responsive UI/UX with fast routing.
- **Utilized:** ReactJS + Vite, TypeScript, Node.js, react-router, Bootstrap, debugged with Chrome Developer Tools.

FIRST Tech Challenge Robotics | [Github](#)

- Lead programmer on FTC #14875 - LightSpeed (2019 - 2021); MA State Champion; qualified for FTC Worlds.
- Responsible for implementing computer vision, odometry algorithms, and autonomous programs.
- **Utilized:** Java, Android Studio, OpenCV, CV, Vuforia, GIT, object-oriented programming, sensor inputs.

SKILLS

- **Technical Skills:** ReactJS, Git, Node.js REST API, Express, MongoDB, pandas, Plotly, Mongoose, Svelte, Scipy.
- **Languages:** Python, TypeScript, JavaScript, Java, HTML/CSS, SQL.