

# 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), software engineering, data pipelines, object oriented programming, databases (SQL/NoSQL), and thinks critically with a problem solving mindset.

## EDUCATION

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### University of California, Berkeley

**Expected Graduation: May 2026**

*Bachelors of Arts - Computer Science, Data Science*

*Berkeley, CA*

- **GPA:** 3.98/4.00 | Dean's List - College of Letters and Science
- **Organizations:** Political Computer Science | Projects Vice President, formerly Workshop Chair
- **Relevant Coursework:** Data Science, Optimization Mathematics, Linear Programming, Object Oriented Programming, Data Structures, Algorithms, Parallelism/Multithreading, CPU, Artificial Intelligence, Databases, Cybersecurity, Cryptography

## WORK EXPERIENCE

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### Software Development Engineer Intern

Amazon

**May 2024 - August 2024**

- Improved architecture of Alexa & AGI Weather through efficient usage of AWS Lambda & DynamoDB in Java & Kotlin.
- Increased scalability on an alert service with over 30 million clients while reducing average alert latency by up to 99.8%.
- Wrote technical documentation, hosted learning sessions, and implemented **Kotlin** usage in pre-existing Java packages.
- Parallelized existing database access abstractions to reduce costs of lambda invocations.
- Assured quality in changes through rigorous integration and end to end tests from SNS feeds to physical Alexa devices.

### Software Engineer Intern

Link Health

**September 2023 - December 2023**

- Developed a web application to remotely register individuals for all welfare programs for which they are eligible.
- Implemented depth first simplification algorithms to effectively simplify tree-like eligibility requirements for 300 programs
- Containerized the web application using docker to allow for more efficient development
- Implemented authorization and authentication for different user roles with middleware in **Node.js**, **Express**, and row level security in **PostgreSQL/Supabase**.

### Data Science Team Lead (Intern)

Link Health

**December 2022 - December 2023**

- Managed and mentored a team of 11 data scientists at Link-Health to improve targeting and research capabilities.
- Leveraged **Pandas**, **Plotly**, **Scikit-Learn**, & **NumPy** as tools for data pipelines & visualizations 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) and using statistical methods to predict certain health outcomes per ZCTA.
- Successfully identified over 70,000 contacts for outreach and manipulated over 3 million rows of unique data.

## PROJECTS & OTHER EXPERIENCE

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**Personal Website:** [noahabji.vercel.app](https://noahabji.vercel.app)

**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, LLM, HTML/CSS

**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 User Interface with fast routing.
- Designed the webpage in Figma prior to development to ensure maintainability and satisfaction in the final product.
- **Utilized:** ReactJS + Vite, TypeScript, Node.js, react-router, Bootstrap, debugged with Chrome Developer Tools.

## SKILLS

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- **Technical Skills:** Amazon Web Services (AWS), ReactJS, Git, Node.js, REST API, pandas, PostgreSQL, Scikit-Learn, NumPy
- **Coding Languages:** Python, TypeScript, JavaScript, Java, Kotlin, HTML/CSS, SQL, C, Assembly (RISC-V)