

Benjamin Goldfried

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EDUCATION

Duke University

Durham, North Carolina

B.S. in Computer Science with a minor in Mathematics

May 2025

- **GPA:** 3.98/4.0
- **Relevant Coursework:** Data Structures and Algorithms, Matrices and Vector Spaces, Discrete Math, Computer Systems, Data Science
- **Activities:** Chabad, Sinai Scholars, Shave and Buzz Club, Duke Iterate

WORK & LEADERSHIP EXPERIENCE

Blings.io - Post-Seed Video Software Company

Tel Aviv, Israel

Software Engineering Intern

May 2023 – July 2023

- Developed a high-performing Full-Stack **React.js** and **Node.js** application that increased customer engagement for client companies by ~**300%** by creating personalized video thumbnails that can be integrated into emails using a Customer Relationship Management (CRM) platform
- Designed a 'no-code' UI component on React.js and MobX-State-Tree, featuring a custom-built rich text editor, which has **generated 1,000,000+ personalized thumbnails** and streamlined the content creation process
- Ensured only valid requests to create/edit thumbnails from authorized users were processed by **employing Node.js, Ajv, JWT access tokens, and Cognito** in a Back-End framework

Duke University Computer Science Department

Durham, NC

Teaching Assistant

August 2022 – May 2023

- Aided the administration of a 300+ student course in Data Structures and Algorithms
- Hosted weekly office hours with **100% positive feedback** rating to debug **Java** and clarify core lecture concepts
- Spearheaded academic discussion of 28 students that fostered **algorithmic thinking** and in-depth understanding of data structures

Duke University Math Department

Durham, NC

Grader

January 2023 – May 2023

- Ensured accuracy and fairness in assessing 100+ students' understanding of matrices and vector spaces

Self Employed

Dix Hills, NY

Tutor

June 2020 – Present

- Facilitated **20-40% grade increases** for 10+ students in high school math, science, and SAT math by tailoring tutoring strategies to each individual's need

SELECTED PROJECTS

Personal Website (React.js, Git, GitHub)

August 2023

- Created a personal website using **React.js** featuring relevant work experience, projects, and hobbies
- Managed the project with 40+ commits, highlighting **adherence to proper web development practices**

Quantitative Analysis of Military Spending and Happiness Metrics (Pandas, Numpy, Seaborn)

December 2022

- Leveraged **Pandas for data cleaning and merging of 3 global datasets** pertaining to military expenditure, GDP, and happiness scores in order to generate logical features for analysis
- Applied linear regression models to uncover correlations between happiness aspects, military spending and GDP and calculated key performance metrics (MSE, R^2)
- Used **Seaborn** for visual data analysis to **generate 5 figures**, including a histogram for military spending as a percentage of GDP which aided in the understanding of data distributions and trends

Etch-A-Sketch (JavaScript, HTML, CSS)

July 2022

- Engineered an interactive 'Etch-a-Sketch' simulation that leveraged **DOM manipulation and event handling**
- Enacted **3 customizable features** enabling users to adjust the grid size, change sketch color, and reset the canvas, showcasing responsiveness to user input

TECHNICAL SKILLS

Programming Languages: TypeScript, Java, JavaScript, Python, C, R, Scheme, SQL, CSS, HTML

Libraries/Frameworks: React, Express, Node.js, MobX-State-Tree, Numpy, Pandas, Ajv, Sharp, Slate.js

Tools: Git, Bash