

# 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 dynamic 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 concepts from lecture
- 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+ student's 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 which features my work experience, projects, and hobbies. Managed the project with 40+ commits, highlighting my dedication to following 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,  $R^2$ )
- Conducted t-test to examine difference in happiness scores based on military expenditure, enhancing understanding of socioeconomic impacts
- Used Seaborn for visual data analysis and generating 5 figures, including a boxplot for happiness scores and a histogram for military spending as a percentage of GDP, aiding in understanding data distributions and trends

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

July 2022

- Engineered an interactive 'Etch-a-Sketch' simulation using HTML, CSS, and JavaScript, leveraging 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