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

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