

# John G. Zolton

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Portfolio: [johnzolton.dev](http://johnzolton.dev)

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## TECHNICAL PROJECTS

### Workout Performance Tracking Web App ([lyfter.vercel.app](http://lyfter.vercel.app))

- Built a full-stack workout and performance tracking web app with Next.js, TypeScript, React, Tailwind, tRPC, and Prisma
- Developed a dynamic workout management system, enabling users to seamlessly create, plan, edit, and log their workout routines
- Implemented a progress monitoring mechanism, tracking user performance and generating alerts in response to performance fluctuations
- Ensured seamless user experience by facilitating easy recovery after missed sessions
- Integrated robust customization capabilities, empowering users to either leverage premade plans or craft their own, and easily add, remove and edit their workouts and exercises.

### Nutrition Tracking Web App ([nutritiontracker.bio](http://nutritiontracker.bio))

- Built a full-stack nutrition and activity tracking dashboard with Django and Postgres
- Integrated Stripe to monetize a premium tier for subscribers
- Created an auto-completing search bar to fetch nutrition data from USDA database with JavaScript
- Implemented automatic syncing with smartwatch activity data to log daily step counts
- Designed a clear display for activity, health, and nutrition data
- Allowed users to search for and save foods, set and adjust nutrition goals, and view previous days data
- Enabled editing and removing selected foods from the current day and previous days
- Boosted quality of life with features such as automatically copying the previous days nutrition or a specific day

### E-Commerce Web App ([freebay.live](http://freebay.live))

- Created an eBay clone using Django, Postgres, AWS S3 Buckets and Railway
- Increased security with two factor authentication using time-based one-time passwords
- Enabled creating new listings, uploading pictures, setting prices, and viewing watchlist items
- Allowed users to place bids and comment on listings, see time remaining, close bidding and see if they had won

**Tech Stack:** TypeScript, JavaScript, React, Next.js, Tailwind, tRPC, Prisma, Python, Django, Flask, SQL, Git

## EDUCATION

### Computer Science Courses:

- Harvard CS50's Web Programming with Python and JavaScript
- Stanford Algorithm's Specialization on Coursera
- Harvard CS50's Artificial Intelligence with Python
- Harvard CS50's Introduction to Programming with Python
- Harvard CS50's Introduction to Computer Science

### The University of Akron, Akron, OH

*Bachelor of Science in Biomedical Engineering: Tissues and Biomaterials with Co-Op*

May 2020

GPA: 3.55 / 4.00

**Activities and Honors:** Dean's List: Spring, 2020, Fall 2019, Spring 2019, Fall 2017, Fall 2015

**Relevant Courses:** Calculus I, II, & III, Differential Equations, Biomedical Computing

## WORK EXPERIENCE

### Norman Noble, Inc., Highland Heights, OH

*Manufacturing Engineer Co-op*

Jan – May 2018, Aug – Dec 2018, May – Aug 2019

- Implemented multiple cost savings initiatives saving over \$18,000 per year
- Improved strength of additively manufactured components by 50% by researching and performing various heat treatment procedures