

# John G. Zolton

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Github: <https://github.com/JohnZolton>

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## TECHNICAL PROJECTS

**Twitter Clone** (<https://github.com/JohnZolton/CS50-Web/tree/main/project4>)

- Allows users to tweet, like and unlike tweets, follow other users, edit their tweets, see tweets of users they're following
- Used JavaScript to query and modify database without reloading webpage
- Used Django and Sqlite3 to serve views and maintain database of users, tweets and follows

**E-Commerce Web App** (<https://github.com/JohnZolton/CS50-Web/tree/main/commerce>)

- Created an eBay-like online auction site using Django and SQL
- Created a database to track user accounts, current auctions, bids, and watchlists
- Users can register, create a listing to bid on, close bidding on their listings, bid and comment on listings, see time remaining and if they won
- Users can filter items by category, add items to- and view their watchlist
- Used CSS to create a responsive front-end

**Email Client** (<https://github.com/JohnZolton/CS50-Web/tree/main/Mail/mail>)

- A single-page email client using JavaScript, HTML and CSS
- Allows users to send and receive emails, check their mailbox, archive and unarchive emails, and reply to emails

**Flashcard App** (<https://github.com/JohnZolton/flashcards>)

- Created a spaced-repetition flashcard app similar to Anki using tkinter
- Key features leverage biological mechanisms to increase effectiveness of studying through random rest intervals between cards and flashing a scary picture to boost adrenaline

**Voice Activated Question-Answering App** (<https://github.com/JohnZolton/scribe>)

- Answered technical questions in real-time using multiprocessing and open-source neural networks
- Enabled real-time voice-to-text speech recognition using open-source neural networks
- Detected questions and used a transformer model to lookup the answer in a corpus of notes

## 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

**Skills:** HTML, CSS, Python, Django, Flask, SQL, Git, JavaScript

### 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
- Varsity Track and Field, 2015-2017

## 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