

Elizabeth (Libby) Dale

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science & International Minor in Engineering

GPA: 3.05/4.0

Courses: Data Structures & Alg., Computer Org. & Hardware, Web Systems, Computer Security, Mobile App Dev.

Ann Arbor, MI

September 2016 - April 2018

ICAI School of Engineering

Study Abroad

Madrid, Spain

May - July 2016

- Explored Spanish culture through courses in environmental engineering, Spanish language and variety of excursions, including visiting a Bioclimatic Housing Compound to see how a community created a sustainable energy systems
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PROJECTS

Detecting Cyclists

September 2017- Present

- First Step: Utilized a Raspberry Pi and Python Bluetooth extension to detect a heartrate sensor used by a biker
- Project Objective: Develop a piece of connected infrastructure that can identify cyclists on the road, pass that data to the internet, and notify drivers in pre-determined "danger zones" for a local tech company TOME

Google Search Engine

March - April 2017

- Created integrated web search engine using Python, JavaScript and SQL with a MapReduce based indexer to handle large amounts of data and retrieved information based on tf-idf and PageRank scores
- Implemented an HTML search engine interface and wrote an index server to return a JSON object with a vector of documents similar to the search query input for the search engine

Relational Database

February - March 2016

- Developed a relational database using C++ that performed the functions of a database such as merging and searching for data after inputting the relevant factors, utilizing unordered maps and vector data structures
 - Evaluated the runtime vs storage tradeoffs for storing and accessing data contained in multiple data structures
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EXPERIENCE

Accurate Technologies Inc.

Intern Test Engineer in Quality Assurance

Novi, MI

May - August 2017

- Created a program test suite with comprehensive test cases for a newly updated data recorder in the main program
- Composed software test cases in Microsoft Visual Studio, discovering bugs in the main program with changes integrated into the program build

University of Michigan Graduate Programs in Engineering

Student Staff

Ann Arbor, MI

September 2016 - April 2017

- Managed content development for University of Michigan Engineering website utilizing WordPress
 - Categorized student data relevant to graduate school applications using Excel to streamline the review process
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STUDENT ORGANIZATIONS

Society of Global Engineers

Vice President of Corporate Relations

Ann Arbor, MI

December 2015 - April 2017

- Led group members to create content for company recruiters and collaborated with recruiters to arrange events

Girls in Electrical Engineering and Computer Science

January 2014 - Present

Society of Women Engineers

September 2016 - Present

TECHNICAL SKILLS

- **Languages:** C/C++, Python
- **Technologies:** Git, Microsoft Visual Studio, Android Studio, WordPress