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# RYAN FEHR

RYANFEHR.GITHUB.IO | RYANFEHR18@GMAIL.COM | 812-946-4807

## EDUCATION

### BS COMPUTER SCIENCE INDIANA UNIVERSITY

3.92/4.0 GPA

C343: Data Structures and Algo.  
C291: Sys. Prog. with C and Unix  
C335: Computer Structures in C  
C290: Android Dev.  
C241: Discrete Mathematics  
M303: Linear Algebra  
C351: Artificial Intelligence  
C461: Database Algorithms  
I427: Search Eng. Optimization

### MINOR BUSINESS INDIANA UNIVERSITY

G300: Economic strategy and game theory

## SKILLS

	Proficiency
Java	●●●●○
TypeScript	●●●●○
HTML/CSS	●●●●○
Python	●●●○
C#	●●●○
C	●●●○
MongoDB	●●○○○
SQL	●●○○○

## EXPERIENCE

### MICROSOFT • TECHNICAL PROGRAM MANAGER JUNE 2018 - CURRENT

- I prototype and implement solutions using machine learning and artificial intelligence to modernize our support and incident management systems.

### GOOGLE • MHACKS X BEST GOOGLE CLOUD MACHINE LEARNING WINNER SEP 23 2017 (36 HOURS)

- My team built an application that visually graphs your mind and thought process as you write utilizing custom data structures, custom algorithms, and the Google Cloud Platform for machine learning.  
- Check out our Devpost for more in depth information on Think Freely and to see what the other 1200+ participants in attendance created.  
[devpost.com/software/free-write](https://devpost.com/software/free-write)

### 84.51(KROGER) • SOFTWARE ENGINEER INTERN MAY 2017-AUGUST 2017

- I helped build an open source collaborative development platform called CoDE  
- Check out the project on Github @8451  
- Utilized Angular 4, Java Springboot, and MongoDB in the Scaled Agile Framework

### HUMANA • DATABASE AUTOMATION AND SERVICES ENGINEER AUGUST 2016-JANUARY 2017

- Implemented a scalable parallel processing solution in C# for collecting data on SQL servers containing 4+ petabytes of data (based on a design I built during my internship during the summer)  
- Cut data collecting times by 90% and provided a linearly scalable solution

### **INDIANA UNIVERSITY • Y395 ASSISTANT INSTRUCTOR**

**AUG 2017- MAY 2018**

- I developed the curriculum for the Y395 class that is taught to Computer Science majors and students pursuing the new Engineering major. I also serve as a guest lecturer for the class.

### **INDIANA UNIVERSITY • C335 UNDERGRADUATE INSTRUCTOR**

**AUG 2017- MAY 2018**

- I taught the lab portion of CSCI-335 Embedded Systems in C.

### **INDIANA UNIVERSITY • TECHNICAL INTERVIEW COACH**

**JAN 2017-MAY 2018**

- Conduct and execute mock technical interviews for graduate and undergraduate students.

- Specifically help prep for roles at Microsoft, Amazon, Google, Facebook, and Uber.

## **PERSONAL PROJECTS**

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### **Yealth | A health based look at Yelp data**

- Yealth helps people find healthy restaurants by document modeling Yelp reviews (2.7m reviews) in order to build a health sentiment score for restaurants nearest to you.

### **NavBot | Autonomous Robot**

- NavBot is a robot I created that navigates its environment based on light, sound, and touch using C as the programming language.

### **RyanFehr/HackerRank | Github Repository**

- I host one of the most visited Github repositories for explaining and showcasing solutions to algorithm and data structure problems presented on HackerRank.com

### **Angular Sandbox | Web UI**

- I am currently building and maintaining a repository that showcases proper use of Angular 4 and Material design according to design spec, with practical and easily repeatable examples/templates.

### **Tetris | C Unix Game**

- This is a version of Tetris that runs through the console

### **Pi-Nigma | Raspberry Pi**

- Recreation of the enigma machine from WWII using a raspberry pi and Python