Ryan Fehr

https://ryanfehr.me | 2005 Sterling Oaks Dr. Sellersburg, IN | rfehr@umail.iu.edu

EDUCATION

INDIANA UNIVERSITY

BS in Computer Science
Expected May 2018 | Bloomington, IN
School of Informatics and CS
GPA: 3.97

KELLEY SCHOOL OF BUSINESS

Business Minor
Expected May 2018 | Bloomington, IN
GPA: 4.0

SILVER CREEK

Highschool
Graduated May 2015 | Sellersburg,IN
GPA: 3.97

LINKS

https://github.com/ryanfehr

COURSEWORK

Applications and Systems
- D191: *Design Studies: Form & Function*
- C211: *Introduction to Computer Science*
- C212: *Introduction to Software Systems*
- C291: *System Programming with C and Unix*

Algorithms
- C343: *Data Structures and Algorithms*
- C461: *Database Algorithms and Concepts*

Mathematics
- C102: *Great Ideas in Computing*
- C211: *Calculus I*
- C241: *Discrete Mathematics*
- M303: *Linear Algebra*

Finance
- A100: *Basic Accounting Skills*
- K201: *The Computer in Business*
- A202: *Introduction to Managerial Accounting*

SKILLS

PROGRAMMING

Java • C# • ASP .NET MVC
Bash / UNIX • C • JavaScript
HTML / CSS • JQuery • AJAX
BootStrap • SQL • Python

OTHER

Cooking • Woodworking • Hiking

EXPERIENCE

HUMANA | Application Development Extended Intern
August 2016 - May 2017 | Louisville, KY

- Continued work on a large web application collecting, managing and providing information on thousands of servers containing over 35 petabytes of data
- Tasked with implementing the multi-threaded solution I developed over the summer across all of the data collectors used in Database Infrastructure
- Collaborated and worked with contractors from Peru and India on both projects and became efficient at communicating while working remotely from Bloomington, IN

HUMANA | Application Development Intern
May 2016 – August 2016 | Louisville, KY

- Interned with the Database Infrastructure team working on developing internal applications and software solutions
- Built a replacement to the current multi-threaded data collectors that were being used by utilizing priority message queue technology and by pushing multi-threading to the machine level thus making it a CPU level task increasing efficiency and helping to alleviate deadlocks and complexity that comes with multi-threading at the application level
- Implemented 110+ production features and bug fixes on an internal application

KINDRED | Application Development Intern
July 2014 | Louisville, KY

- Worked on developing a IOS app using Xamarian Studio that helps nursing students prepare for their exams. This served as a marketing plan to help Kindred expand thier network of nurses and increase service providers.

ACCOMPLISHMENTS

IHSAA | Football Academic All State
2015

HUMANA | Problem solving competition, First Place
2014

- My team and I were tasked with finding a solution to the problem of properly disposing of technology assets once their life cycle was over
- We developed a software solution that allowed for an increase the speed of asset disposal as well as proposing a way to give old technology to local schools and earn Humana a tax break

HUMANA | Problem solving competition, Runner-up
2013

- Learned how to manage a budget, deal with unexpected mid-project budget cuts, and how to use team dynamics to increase product quality

PROJECTS

Pi-Nigma | Invention, Creator
August 2016 - Present

- This is a project I am working on to recreate the functionality of an Enigma machine from WWII using a Rasberry Pi and Amazon Echo
- The end goal of this project is to allow the user to dictate a message and have it encrypted according to Enigma's electronic circuit encryption, by using code as a medium