

PATRICK VEITH

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SKILLS

- **Proficient in:** C#, SQL, Python
- **Prior experience with:** Ruby, JavaScript, Java, C/C++
- **Frameworks:** ASP.NET, Entity Framework, Ruby on Rails
- **Tools:** Git, Unix/Linux, SQL Server Management Studio, Heroku, Trello, TestCafe

EDUCATION

The Ohio State University
B.S. in Computer Science and Engineering

Columbus, Ohio
December, 2017

RELEVANT EXPERIENCE

Rogue Fitness **Application Development Intern** **May 2017 to July 2017**

- Gathered stakeholder requirements and translated into detailed specifications for new business feature reducing business analyst workload
- Translated specification into granular technical tasks detailing specific work done for feature implementation saving time for a technical lead to do other tasks
- Performed tasks of the database manager designing new tables and implementing stored procedures to read and write data for a new business feature
- Implemented front and back end code to filter information retrieved from stored procedures and display in a grid

Honda R&D Americas **Student Associate** **May 2016 to December 2016**

- Designed and built a C application to control prototyping hardware utilizing a provided API and a Tkinter GUI to control an embedded hardware signal generator simulating an electronic control unit
- Created detailed human-machine interaction specifications to layout future cars infotainment application map
- Modified existing C++ code for prototype hardware switches in order to simulate button presses

Siemens PLM **Software Development Co-Op** **January 2015 to August 2015**

- Saved time spent filling out required information fields by creating server side code to automatically populate user information on object creation
- Developed a script to automate reports on user activity eliminating a 10 minute daily task
- Created a graphical difference tool for proprietary XML documents to provide digestible data visualization

OSU Driving Simulation Laboratory **Research Assistant** **January 2014 to May 2017**

- Utilized Python's SciPy stack to manipulate large datasets for easier statistical analysis
- Wrote and executed R scripts on formatted datasets to provide clear graphical interpretation of data
- Maintained servers running distributed simulation software to ensure successful execution of experiments

PROJECT EXPERIENCE

Intelligent Mixed Reality

- Merged multiple feature branches from another group resolving conflicts and tracking down bugs in order to demo items implemented from both teams
- Increased speed of api calls by implementing schema changes from relational database to a key-value store
- Updated documentation from previous groups to include database changes and how to further extend key-value store

Game Development

- Programmed an interactive Mario game with the .NET framework in teach C# learning design patterns and the agile development process within a group environment
- As our team lead and Scrum master I planned out a series of sprints to divide up tasks among group members
- Learned and implemented design patterns such as state machines, decorators, and factory methods

Databases

- Designed and supported a SQLite database for storing a bookstore's inventory and sales records
- Created queries to track down customers and their book purchase histories
- Designed views to display best selling books, number of books sold, and the price of each book