Yvan Soetarman

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EXPERIENCE

Path Planning Engineer, WATonomous SAE/GM AutoDrive Team   *Waterloo, ON; September 2017 - Present*
- Integrating localized HD map features and waypoints into the behavioral planning module with ROS / C++
- Setup continuous integration pipelines for automated builds / tests for C++ with CMake, Bash, and Valgrind

Software Development Intern, WJE   *Northbrook, IL; May 2018 – August 2018*
- Improved performance by implementing additional functionality in an internally used Angular based web application that increases productivity of engineers and reduces time for project completion by 50%
- Developed new and existing components and services to resolve lasting issues within application
- Designed script to more quickly create animated gifs designed to document app usage to new users

Data Engineering Intern, Brake Parts Inc.   *McHenry, IL; July 2017 – August 2017*
- Developed a SQL Server database implementation for Master Caliper Component Specs Database
- Allowed user to more efficiently update and view database through executing a Python script
- Built a TkInter GUI application that displayed a cleaner interface of database query information for the user
- Performed data manipulation and cleansing to ensure accuracy of catalog and interchange caliper data

Coach and Referee, Upward Sports   *Grayslake, IL; December 2011 – March 2016*
- Responsible for organizing practices, devising game plans, and managing player rotations
- Focused on player skill development as well as relaying player feedback during practices and games

PROJECTS

"Quadris", Class Project   *December 2017*
- Produced a Latinized version of the popular game Tetris with two other students taking the course
- Written in C++ with a focus on utilizing appropriate object oriented principles and design patterns

"Low Key 911", WildHacks   *November 2016*
- Collaborated on four-person team to design a Node.js app accompanied by an Android WebView client
- Application allows for a user to silently send a 911 voice message as well as their location making use of a Twilio API call customized based on their situation

"BlockShooter"   *May 2013*
- Player controls a space ship to battle an AI ship that increases in ability as more points are accumulated

TOOLS, & RELEVANT COURSEWORK

- **Programming Languages:** Python, SQL, C, C++, Bash, HTML/CSS, Racket, JavaScript, Typescript, R, MATLAB
- **Tools:** Git, SQL Server Management Studio, Microsoft Excel, Unix, Windows
- **Relevant Courses**: Algorithms, Data Structures, Computational Statistics (R), Computational Math (MATLAB), Object Oriented Software Development (C++), Functional Programming (Racket)

EDUCATION

University of Waterloo: Joint Bachelor of Computer Science and Statistics, Business Option   *Waterloo, ON; 2016 -*
- President's Scholarship of Distinction, awarded for high entrance average