William Harrison

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Education

University of St. Thomas

Computer Science Information - Securtiy; Catholic Studies
Fall 2011 - Spring 2015 (expected)

Courses Algorithms, Information Security, Object Oriented Design, Networking, Modern Crytography, System Design.

Skills/Languages

Languages	Python, Bash, HTML, CSS, Javascript, Java, C, C++.
Technologies	Latex, vim, Wireshark, git, shell, Linux Openssl, iOS, Android.

Work Experience

Medtronic

Summer Engineering Associate	- Maintained and updated in house website.
Summer 2012	- Maintained a list of candidates for gaining special certification.
Fall 2012 - Spring 2013	- Distributed instructional guides to help install statistical software.
Summer 2013	
Fall 2013 - Spring 2014	

Wayzata Youth Hockey Association

Peewee AA Coach	- Helped run practices 3-5 times a week during the school year.
2012 - 2013	- Taught kids hockey skills and incorporated life lessons.
2013 - 2014	- Main source of communication with parents about team related information.

App Development

Independent App Developer	- Released app called The Catholic App: Find a Church near you.
May 2009 – August 2009	- Learned process of submitting apps on iOS and Android stores.

Projects

Quorridor Pathfinding

Built a tool for this game in Python to find the best path around placed walls to a winning destination. Github

Latex MLA Autoformat Tool

Implemented a program to autoformat MLA citation standards used for my humanities papers. Github

Python Crytography

Built program in Python to test the strength of cryptographic functions for independent study in Modern Cryptography. Github

Music Studio *In Progress*

Developed a framework and design for a unser music studio. Currently testing different ways to implement this program. The end product will be in C or C++.

Interests

Ice Hockey

I played and now coach hockey. I love to incorporate the importance of life outside of hockey. I teach hockey as a game, but a game that can make you a complete person.

Music Production

I discoverd my interest in all music in college and decided to pay for piano lessons and watch videos about all apsects of music production. I never knew anything about it before and now I consider myself very proficient in that area.

Arduino

Taught myself the basics of electrical engineering through experimentation with the Arduino. Implemented a simple dot matrix clock that displayed the time of day.

Chess *In Progress*

Developing a Role Playing Chess game that implements simple chess playing with a campaign that adds a unique experience.