Matthew Morscher

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Education

BACHELORS OF SCIENCE | ROSE-HULMAN INSTITUTE OF TECHNOLOGY | MAY 2018

Major: Computer Engineering   **Minor**: Computer Science

GPA: 3.45

Experience

SOFTWARE ENGINEERING INTERN | NEXTGEAR CAPITAL | JUNE 2016 – AUGUST 2016

· Performed full-stack software development in an Agile environment during two week sprints.
· Implemented numerous user interface enhancements related to list management, sorting, database updates, and credentials related to NextGear accounts
· Completed numerous website UI enhancements
· Performed bi-weekly sprint demos to the software development team and entire business side of the company

IT NETWORK INTERN | THE SCOTTS MIRACLE-GRO | JUNE 2015 – AUGUST 2015

· Configured and troubleshot remote site network devices
· Traveled to perform onsite installation and debugging of network devices
· Performed budget and end-of-life analysis for Cisco devices
· Configured and installed remote network camera and utilized a Raspberry Pi to enable the camera feed to be viewed in a cost-effective way on a TV
· Developed website notification tool using HTML, CSS, and JavaScript as part of an intern project

INTRODUCTION TO DATABASES | ROSE-HULMAN | DECEMBER 2016 – FEBRUARY 2017

· Created an Android application to display all club information at Rose-Hulman
· Implemented node.js, *Let's Encrypt*, and RoseFire on the backend
· Created stored procedures, tables, views, indexes, and triggers on SQL database

ADVANCED MICROCOMPUTERS | ROSE-HULMAN | FEBRUARY 2017

· Implemented analog-to-digital converter on Pynq-Z1 board
· Took input from GoPro and sampled at 1MSPS to recreate a grayscale digital image using Vivado and Python

COMPUTING IN A GLOBAL SOCIETY | ROSE-HULMAN | SEPTEMBER 2016 – JANUARY 2017

· Revolutionized the Swedish healthcare system for the year 2025
· Worked remotely with Gannon University (Erie, PA) and Uppsala University (Uppsala, Sweden) in two time zones

Skills & Abilities

SOFTWARE

· HTML, JavaScript, AngularJS, CSS, Java, C, Python, MATLAB, Office Suite, Linux
· Alloy, Yices, Yakindu, TLA+, PlusCal
· Agile Methodology

HARDWARE

· Programmable Logic Controllers/Automation, Circuits, PIC Microcontrollers, Digilent Waveforms