Emily Hilbig

3A Computer Engineering | University of Waterloo
905 606 0360
eshilbig@uwaterloo.ca
github://emilyhilbig

SKILLS & HIGHLIGHTS

- Creative and efficient software developer
- Passion for learning new technologies
- Finds enjoyment in solving problems differently
- Hardworking and self-motivated teammate

LANGUAGES

Java, SQL, PHP, HTML, CSS, C#, JavaScript, C++, Python, VHDL

FRAMEWORKS & LIBRARIES

RequireJS, AngularJS v 1.6, Handlebars, BackboneJS with Marionette, Selenium with Capybara, PHPUnit, Mocha, Chai

EMPLOYMENT HISTORY

Manufacturing Controls Automation – Ontario Die International   *Kitchener (Sept '16 – Dec'16)*

Researched, managed and implemented innovative software projects using .NET frameworks
Constructed algorithms to greatly improve the accuracy of ODI's die manufacturing process in real time
Created machine vision programs to test manufacturing prototypes using the Keyence XG vision system
Designed libraries to interface with the Keyence XG system using networking protocols (FTP & TCP/IP)

Full Stack Development Intern – Achievers Inc. (8 months)   *Toronto (May '15 – Apr '16)*

Developed and debugged backend features in PHP using Service Oriented Architecture Principles
Contributed to release planning: created sprint tasks, stories and time estimates for client facing features
Increased reliability of frontend JavaScript using Mocha with Chai assertion library to introduce unit tests
Planned, designed and developed automated email tool for testing new email templates

Software and QA Automation Intern - Eventmobi   *Toronto (Sept '14 – Dec '14)*

Worked on small QA team writing automated test scripts for new features using RSpec
Solely responsible for overseeing multiple releases of new features and bug fixes
Fixed multiple bugs in PHP code base while carrying out client requests
Used knowledge of web-based programming to contribute to internal deployment tools

Database Analyst - Electricity System Operator of Ontario (IESO)   *Oakville (Jan '14 – May '14)*

Provided data base administration for the Market Registration team for the Ontario electricity marketplace
Used OOP principles to design, develop, and maintain tools used on a daily basis by the team
Prepared concise documentation for users and future developers

PROJECTS

PaceKeeper

Mobile Android application that regulates your cardio through music using the Moto 360's heart monitor. Built with Android's 5.0 APIs including the Android Wear and Google Fit APIs.

Path Finding Navigator

Mobile Android application that helps you get from point a to point b in real time. Uses the device's sensors in accordance with a low pass filter and recursive, depth first, path finding algorithm.

EDUCATION

University of Waterloo   *(Sept '13 – present)*
Candidate for a Bachelor of Applied Science in Computer Engineering

- Relevant courses: Operating Systems and Systems Programming, Electronic Circuits, Engineering Design with Embedded Systems, Data Structures and Algorithms, Embedded Microprocessor Systems

ACTIVITIES & INTERESTS

Volleyball • Basketball • Hackathons • Football • Snowboarding • Running • LOTR Marathons • Yoga