Andrew H. Shidel

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Work Experience

SiriusXM | SEPT 2014 – MAR 2015

Software Engineering Co-Op

- ➤ Built system monitoring applications for streaming and metadata services.
- ➤ Designed and implemented an audio visualization library in C# and C.
- ➤ Implemented a metadata annotation tool in PHP.
- ➤ Built database management tools in Java and Python.

DOSSIER SYSTEMS | SEPT 2013 – MAR 2014

Software Engineering Co-Op

- ➤ Led development on mobile applications for iOS and Android platforms.
- ➤ Interfaced with and contributed to a WCF cloud service to transmit and receive data.
- ➤ Built a Database import utility using C#, VB, WPF, and SQL.

American Pool Management | SEPT 2010 – SEPT 2013

Lifeguard and Pool Manager

- ➤ Monitor activities in swimming areas, and maintain and repair equipment by analyzing pool chemicals.

Keystone Fireworks | SUMMER 2012

Salesman and Manager

- ➤ Built, stocked, managed, and advertised a fireworks stand.

Projects

Zephor: shidel.com/zephor.html

An open source drone OS build using android as the "brain", UDP for communications, and QT with a leap motion camera as the control system.

AI Box: shidel.com/aibox.html

An open source AI library written in JAVA and C++, designed to combine genetic algorithms, evolutionary programing, neural networks, and adjustable virtual circuits.

Reddit Social: shidel.com/redditsocial.html

A Node.JS framwork for embeding comments into a web page, powered by the Reddit API.

Chrome Leap Tools: shidel.com/leaptools.html

A Chrome extension enabling gesture based browsing using a Leap Motion Controler.

Green Screen Photography: shidel.com/greenscreen.html

Image editing application for Android. Built to capture images, remove backgrounds, and layer images.

Technical Skills

Advanced Knowledge	JAVA, HTML/JavaScript/CSS, C/C++, PYTHON
Intermediate Knowledge	GO, Ruby, C#, SQL LaTeX, PHP
Basic Knowledge	Matlab, Maple, Visual Basic, MIPS Assembly, Lisp
Platforms	Linux (Ubuntu, Cent), Windows, Mac, IOS, Android

Education

Drexel University | SEPT. 2012 - PRESENT

Bachelor of Computer Science
Minor in Business Administration
Expected Graduation: June 2017

Relevant Coursework

MATH	Calculus I, II, III, IV, Linear Algebra, Discrete, Statistics
Computer	Alg. and Data Structs., Software Design, Programming I, II, Systems Programming, Advanced Programming Tools and Techniques, Artificial Intelligence, Systems Architecture, Digital Design
ENGINEERING	Engineering Design Lab I, II
SCIENCES	Physics I, II, III

University Projects

Groupit: shidel.com/groupit.html

An android app providing a simple, universal means for organizing and communicating between any group or organization. Built with a team of Drexel students, using Java, Node.js, and the Facebook SDK.

Opened Fire: openedfire.com

Worked with a team of fellow students to create an online multiplayer RPG game for Android, IOS, and web browsers using HTML5 canvas, JavaScript, Node.js, and WebSockets.