Andrew H. Shidel

WORK EXPERIENCE



JUNE 2016 - SEPT 2016

Parallel Systems Architecture Internship

- ➤ Worked in a large group on a GPU simulator written in c++.
- > Added new debugging functionality to simulator for parallel compute pipeline.



SEPT 2015 - MAR 2016

Systems Infrastructure Co-Op

- ➤ Contributed to chip simulation and build verification infrastructure projects in a 12 person engineering group.
- > Worked with a small team of engineers on an Eclipse based IDE for performing builds, managing projects, and running chip simulations.



SEPT 2014 - MAR 2015

Software Engineering Co-Op

- ➤ Developed a live sports data collection service with a small group of programmers.
- > Built system monitoring applications for streaming and metadata services.
- ➤ Designed and implemented an audio visualization library in C# and C.
- > Built database management tools in Java and Python.

DOSSIER

SEPT 2013 - MAR 2014

Software Development Co-Op

- Led small team in development of 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.

PROJECTS

Genotype:

shidel.com/genotype.html

A programming language built specifically for Genetic Algorithms. Implemented on top of a custom instruction set and VM.

Chrome Leap Tools:

shidel.com/leaptools.html

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

Green Screen Photography: shidel.com/greenscreen.html Image editing application for Android. Built to capture images, remove backgrounds, and layer images.

WheresItAt:

WheresItAt.io

A meta search engine that finds stores near you that sell what you are looking for.

Android Quadcopter:

shidel.com/zephor.html

An open source quadcopter OS build using Android, UDP, and a leap motion camera as the control system.

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TECHNICAL SKILLS

Advanced Knowledge C/C++, JAVA, JavaScript/css,

PYTHON, Perl

Intermediate Knowledge Go, Ruby, C#, SQL, ML

LATEX, PHP, Haskell, Prolog

CUDA, OpenCL

Basic Knowledge Matlab, Maple, Visual Basic,

MIPS Assembly, Lisp, VHDL

Platforms Linux (Ubuntu, Cent), Windows,

Mac, IOS, Android

EDUCATION

Drexel University

SEPT. 2012 - PRESENT

Bachelor of Science in Computer Science Minors in Business Administration and Mathematics Expected Graduation: June 2017

Relevant Coursework

Матн Calculus I, II, III, IV, Linear Algebra,

Discrete, Statistics, Graph Theory

Computer Alg. and Data Structs., Software Design,

Programming I, II, Systems Programming, Advanced Programming Tools & Techniques, Artificial Intelligence, Systems Architecture, Digital Design, Concurrent Programming

Engineering Design Lab I & II,

Dynamic Engineering Systems

Sciences Physics I, II, III

University Projects

Silk Tours:

silktoursapp.com

Silk Tours is an Android and IOS app that can connect travelers with local guides in their area. Currently in development as a senior design project with a group of Drexel students.

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.