Adin Horovitz

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EDUCATION

2016 **MS, Computer Engineering - GPA 3.9**
BOSTON UNIVERSITY - BOSTON, MA

2008 **BA, Chemistry/Neuroscience - GPA 3.6**
KNOX COLLEGE - GALESBURG, IL

SOFTWARE SKILLS (DECREASING ORDER)

Languages	C, C++, Java, MATLAB, R, Python, C#, HTML, CSS, MIPS/x86 Assembly, SQL, LaTeX
General	Linux Kernel Module, Qt UI, Web Design (Visual Studio), GPU (CUDA), Arduino, Android App Dev (Android Studio), Agile Project Management, Multicore (OpenMP/Pthreads), Shell scripting, QEMU, Verilog, Cadence Virtuoso, gdb, Git, IDA Pro

PROFESSIONAL EXPERIENCE

FEB 2014 - JUL 2014

Walden University School of Nursing
Field Education Temp

- Application process automation using R

OCT 2012 - AUG 2013

Kaplan Test Preparation
MCAT Instructor/Tutor

- Teach MCAT content and strategy to groups and individuals
- Present course products at marketing events

AUG 2009 - AUG 2012

Lab of Neuropsychology, NIMH
Animal Biologist

- Exploratory data analysis using MATLAB
- Design/execute behavioral experiments
- Present findings in PowerPoint and poster formats

SELECTED PROJECTS

2016

Project Lead
"bitQuit" – IoT Smoking Abatement Tool

The bitQuit is a smart cigarette case (and Android app) that helps smokers limit and track cigarette use. The case locks for a programmable interval, and custom switches count cigarettes remaining. These data are transmitted via BLE to the app, where smoking history and remaining wait time are viewable.

2016

Front-End, Firmware Developer
"Display-o-Matic" e-Paper Tie

This novelty tie has a built-in e-paper screen which displays arbitrary patterns/images. The user selects image thumbnail on touchscreen linked to Gumstix Verdex board. Selection is conveyed via Bluetooth to Raspberry Pi, which updates display via GPIO pins.

2015

Back-End Developer
"JAMs" Playlist Application

This Java-based playlist app maintains a database of playlists/songs based on popularity. Searches feature fast autocomplete using a Prefix Tree, and popularity ranking is maintained with a modified BST. UI implemented with JavaFX.

2014

Lead Developer
"LEAP Legends" – Android App

Original hexagon-based game for Android. Board elements and game pieces are implemented with OOP principles to create a simple, yet deep two-player strategy experience.

ENGINEERING COURSES

- Introduction to Embedded Systems
- Computer Architecture
- Introduction to Logic Design
- Electronic Circuits
- Introduction to Electronics
- VLSI Digital Circuit Design
- Introduction to Software Engineering
- Applied Algorithms for Engineers
- Advanced Data Structures
- High Performance Computing (Multicore/GPU)
- Lean & Agile New Product Development
- Enterprise Client-Server Software Systems Design
- Cybersecurity