Jeremy Goldman

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EDUCATION

Tufts University (Medford, MA) 3.51 GPA – Computer Science GPA: 3.67, Economics GPA: 3.7
Bachelor of Science in Computer Science and Economics, class of 2015

SKILLS

- Languages: Python, Java, C++, Objective-C, C, Matlab, Html, XML, CSS, Javascript, LaTex, Assembly, Erlang, Scheme, ML, Ruby, Swift
- Android mobile development, and coding in a Linux, Windows, & Mac environment
- Advanced piano playing, detailed knowledge of music theory
- Technologies: AngularJS, MongoDB, NodeJS, ExpressJS, SQL, Hadoop, jQuery

PROFESSIONAL EXPERIENCE

I-Team Resources, Medford, MA, *Mobile Development Engineer*, February 2015-present

- Converge 42 separate car dealership apps into one main file with 40 unique flavors. Use unique images and JSON files to fill list views and signal which features to enable. This allowed the company to push new mobile applications that fit within a template at a significantly faster pace.
- Optimize location services to balance accuracy, speed and battery usage. Build single point of truth Tracker class with API for accessing android's location manager at optimized settings.
- Polish and modernize UI/UX to be intuitive and visually pleasing, for instance by customizing list view adapters
- Transition source code for 42 android apps from the Eclipse IDE to Android Studio

MIT Lincoln Labs, Lexington, MA, *Software Developer*, June 2014-August 2014

- Code a GUI to write large target configuration files for the radar simulation system (RSS)
- Calculate point localization in three dimensional space and time, involving advanced trigonometry and the use of quaternion matrix operations
- Design a front-end user interface that is easy to understand and allows flexibility of targets' radar-cross-sections, interference configurations, and flight paths
- Save senior engineers 1-2 hours of work a day by automating the flight paths of test targets

TechBreakfast, Baltimore-Washington Area, *Conference Assistant*, May 2013 - August 2013

- Record and stream presentations, by operating multiple webcams, audio inputs and computer screens
- Build tutorials for future streamers on how to use Wirecast

RELEVANT PROJECTS AND COURSEWORK

- MyGroceryList: Android app available on the play store. Stores food inventory, and grocery lists with easily navigable UI. Customizable background and list sort options. Available at: https://play.google.com/store/apps/details?id=com.github.jgoldm01.grocerylist
- SudokuSolver: Connected to Tkinter GUI, this finds the solution to any solvable Sudoku puzzle. It is comprised of a 3d list with the board (2d) and possible spots (3). First knocks off impossible values, then non-deterministically tests available spaces. May be in NP, working on a P solution. Python.
- Java Games: Snake and Tetris, written in Java using Eclipse. Downloadable files available on my website.
- PacketAlarm: programmed an alarm system that alerts to the user when it detects an attacking Xmas or Null port scan, and can also analyze a web server log for NMAP scans & Shellcode insertion. Utilized the PacketFu gem to extract fields of TCP and UDP packets. Written in Ruby.
- Image_Compression: Compresses an image by converting RBG pixels to vcs and then encoding the values of each 4-pixel block into a 32 bit key. Can also decompress from encrypted keys. Code in C.
- Beast: name of the computer I built over the summer. Runs Ubuntu 14.04, Windows 8.1, and OSX Mavericks
- Courses: Machine Structure & Assembly Level Programming, Data Structures, Computation Theory, Analysis of Algorithms, Linear Algebra, Web Programming, Concurrent Programming, Functional Languages, Operating Systems, Intro to Computer Security