Lee Painton
Software Engineer

Contact

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Languages

Java,
Javascript
C#, SQL
Python

Technologies

ReactiveX, Angular
REST, JUnit, Mocha
OAuth 2.0, Play
Chai, Mockito, Azure

Summary

I am a software engineer with broad interests across the stack. I have a particular fondness for learning new data structures, studying software architectural patterns and designing performant algorithms. My masters focus was in AI with a specialization in Reinforcement Learning. My further interests include Programming Languages, Natural Language Processing, Databases and Cryptography.

Education

May 2016	**Masters** in Computer Science	Brown University
	GPA: 3.5	
	Master's project: https://github.com/Evangielis/BURLAP-BAG	
May 2014	**B.S.** in Computer Science	Montclair State University
	GPA: 3.9 – Summa Cum Laude	

Experience

Software

1/17–Now **GE Digital**   Providence, RI
Software Engineer
Part of the back-end team of GE Digital's Digital Workplace Technologies division, I currently work on enterprise search. I lead a weekly program of code calisthenics which focuses on introducing new concepts in computer science theory as well as reinforcing more commonly known concepts and problem solving skills. I'm also responsible for organizing a monthly office-wide coding competition intended to broaden horizons and engage the local developer community.

8/16–1/17 **Advanced Remarketing Services**   Warren, RI
Software Developer
Designed and implemented mCam, an auction data mining application that replaced a previous process of recording and playing back auctions by an employee in order to manually record information. Overall value to the company estimated to be $130,000 annually. Also designed and implemented an auto value appraisal tool based on sales data aggregated from multiple sources.

11/14–4/16 **Part-time Freelance**   Providence, RI
Freelance Developer
Developed a Windows-based application suite for business client Metra. The suite includes Windows-based software tools to interface with the company's Axxess product line (http://axxessinterfaces.com/). The net benefit to Metra was to modernize the software Metra offers its clients and thus increase the marketability of the company's products.

| 2010–2011 | **Celgene Corporation** | Summit, NJ |

Information Security Consultant

Worked with the Active Directory security team. Besides daily processing of tickets and documentation of business processes, also composed .NET scripts to automate the creation of directories, the assignment of security groups and the renewal of expiring accounts. This helped Celgene in its efforts to automate processes as part of the implementation of an ITIL compliant framework.

Projects

| 6/17–Now | **Regulatory Compliance Bot** | Source is proprietary |

An ongoing project being worked on by myself and two interns, the goal of which is a chat bot that can answer an employee's questions about compliance issues. Concerned departments submit answers to their most frequently asked questions along which are compiled into a corpus for training the bot. Node.js is used to tie together the database, administrative portal, NLP toolkit and Bot Framework. The Microsoft Bot Connector serves the bot through Skype for Business.

| 1/17–3/17 | **System Status X** | Source is proprietary |

System Status is a full-stack application which provides a minimalistic view of and notification platform for high priority system outages via an iOS app. System Status X, a component of System Status, is a cross-platform rewrite of the original app using Angular 4 and Ionic 3. It's can be consumed as either a progressive web-app or as a stand-alone application for android or iOS. I maintain the former and was part of a team of two that built the latter.

| 9/16–10/16 | **Multiple Concurrent Auction Monitor** | Source available on request |

A full-stack application that offers a client-side chrome extension enabling the user to mine data from an auction website. The user selects channels to which the app subscribes via websockets. Information is aggregated over time and stored in the local IndexedDB for deferred export to a jsp endpoint. Once hitting the endpoint the data is validated then saved to the database.

| 11/14–2/16 | **Metra App** | https://github.com/Evangielis/MetraApp |

A commercial application to interface with Metra's line of Axxess radio mod boards. It was designed primarily with retailers in mind who might need to perform the same firmware updates and steering wheel control configurations multiple times a day.

| 2015 | **ConfusionQuiz** | https://github.com/Evangielis/ConfusionQuiz |

This application interfaces with an Intel RealSense device and constructs both a video and an XML record of facial cues while the user takes a randomized quiz of designed to confuse them. Data was stored as a series of time-elapsed frames with recorded integer values for metrics offered by the Intel RealSense API.

| 2014-2015 | **Robocook** | https://github.com/h2r/robocook |

A research tool in the form of a game about cooking with the help of a robot. This was written in JQuery utilizing elements of the GameQuery library. Uses WebSockets to communicate with an AI agent running BURLAP on a webserver and saves data on user actions. Was designed to support research being done by Stephanie Tellex's H2R group at Brown University. A demonstration can be found at http://elzar.cs.brown.edu/robocook/