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Jacob MacDonald
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Skills

Most comfortable with Java, C#, Python, JavaScript, Clojure, Docker, Git, Linux, Emacs Lisp, Go
Have worked with C, PHP, Common Lisp, HTML/CSS, Lua, Fossil, Windows, macOS, Android

Experience

Junior Developer at Stickman Ventures

August 2013 - Present

Created and maintained internal and client projects in a variety of technologies. Projects included

- A Progressive Web App utilizing Polymer/Firebase/Service Workers
- Applications for embedded and wearable devices, including Google Glass and Raspberry Pi
- An interactive e-commerce site utilizing WebGL on the frontend and PHP/SQL on the backend
- Experiments in getting unofficial languages running in a managed Google App Engine environment

Projects

Chronicled Partner Portal

During the Fall 2016 Neumont quarter, three other students and I are working with Chronicled to create a partner portal for their business in the Enterprise Projects class. Responsibilities include:

- Adding functionality to a React application with Redux and related technologies
- Self-organizing in a student team while working remotely with Chronicled, who are based in the California Bay Area
- Tracking project progress with code reviews and continuous integration tests

Paleothele informaticus

P. informaticus is my Neumont Capstone project. During the quarter the project took, I:

- Explored the uses of various types of neural networks on natural language and abstract syntax trees
- Helped get a Common Lisp GPU programming library running natively on Windows
- Ran TensorFlow calculations and visualizations from inside Docker containers

quse-package

quse-package is an Emacs package containing a macro which composes two package management utilities for Emacs, `quelpa` and `use-package`. I use it extensively in my Emacs init file.

Creative App Engine

Creative App Engine is a collection of tiny projects and talk created for a Google Developer Group event. The projects are demos of deployments to Google App Engine managed environments using languages which are not officially supported.

Drive My Car

Driver My Car was a group project completed for a web application class at Neumont. I worked on:

- Programming a wireless microcontroller in Lua to receive and interpret commands
- Managing a queue of messages from a WebSocket connection and sending commands to the microcontroller
- Resolving version control (Git) and deployment (Heroku) issues

Education

Neumont University, Salt Lake City, Utah

October 2014 - March 2017 (expected graduation)

B.S. Computer Science, GPA: 3.70/4

Modesto Junior College, Modesto, California

August 2010 - December 2013

Concurrent enrollment during high school, classes included

- Introduction to Computer Science
- Film Production
- Speech and Debate