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# Jacob MacDonald

https://jaccarmac.com

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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

**Intern at Chronicled, Inc.** *October 2016 - Present*
Added functionality to a B2B/B2C portal web application.
- Added business logic and API integration to a React/Redux project.
- Worked with testing and deployment tools like Yarn, Flow, CircleCI, and Selenium.
- Integrated a Node/Mongo/Algolia custom-built server framework with AWS endpoints.

## Projects

**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 projected completed for a web application class at Neumont. I worked on:
- Programming a wireless mircocontroller 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