Daniel Marcoux

I enjoy creating computational models based on the past, so I can predict the future, and change the world.

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Projects

Collab

I am currently working on a startup/application with the purpose of bringing musicians, venues, and managers together using an interface similar to Tinder. I am programming both the user interface and server-client architecture. The project is written primarily in React Native to take advantage of cross compatibility, and the database is written in MongoDB.

DandroidDeveloper.github.io/Collab

Life, the Universe, and Everything

My personal blog cataloguing my favorite aspects of Mathematics, Programming, and Physics. My latest achievement was creating an Artificial Neural Network that utilized Convolutional Pooling to correctly categorize hand-written digits with an accuracy of approximately 97%. I used CUDA to send computationally intensive calculations to my GPU; essentially turning my laptop into a super-computer.

DandroidDeveloper.github.io/Code

Android Material List

For and Android Development course I created a list application using Java and SQLite, which adhered to (at the time) new Material Design specifications set forth by Google. The list allowed you to perform native database functions and linked to a website containing a tutorial I wrote in HTML/CSS.

DandroidDeveloper.github.io/List

Skills and Competences

- Python
- Front End Web Development
- Graphics (WebGL/OpenGL)
- React Native (Cross Platform Mobile Development)
- GNU/Linux/Bash
- Android
- Back End Web Development
- Artificial Intelligence/Machine Learning

Interests

Physics | Mathematics | Programming | Rock-climbing | Guitar | Trumpet | Piano | Vocals | Reading | Backpacking

Community Service

Albright Sustainable Garden Permablitz | Freihofer's Run for Women | Back on My Feet | Multiple Sclerosis Walkathons | Creak Sweeps | Can Drives | Veteran's Day Parades | Opening Day | Firehouse Breakfasts

Languages and API's

React Native | Theano | C | C++ | C# | HTML | CSS | JavaScript | OpenGL | WebGL | Python | Java | SQL | PLSQL | SQLite | Matlab | BASH | Git | Realm | MySQL | TensorFlow | React | Meteor | LAMP | MEAN | Ipython Notebook | OpenCV | CUDA