

Michael Browning

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Summary of Qualifications

- Michael Browning is experienced in both the art and science of software development, literally and metaphorically. Michael's specialties include the design and implementation of mathematical models and the adaptation of software processes to highly parallel environments.
- Michael has specific experience with writing software for large computer clusters and multi-core systems, implementing and using machine learning constructs and algorithms, systems programming in UNIX-like environments, and programming for the web.
- Language proficiency in Python, C, Java, Clojure, JavaScript, Objective-C, SQL, and PHP.
- Familiarity with tools including the Bash shell and UNIX command line utilities, Portable Batch System, LaTeX, Eclipse and Xcode.

Professional Experience

Scientific Programmer – Washington University in St. Louis

Laboratory and Genomic Medicine, Swamidass Lab

August 2010 – Present

The Swamidass lab designs novel algorithms to discover new medicines and new uses for existing medicines.

- Designed and implemented software tools for pharmacological analysis in highly parallel environments in Python
- Implemented experiments for and co-authored papers on novel machine learning methods in a pharmacological context
- Collaborated with researchers in industry and in other labs to validate analyses and generate new leads for drug testing

Application Developer – Pupillo Group

March 2010 – July 2010

Pupillo Group creates web and mobile applications and websites.

- Designed and implemented an email marketing suite, which was successfully sold to and used by several of the company's top clients in their own marketing campaigns
- Performed market analysis and drafted requirements for new software products in cooperation with Sales & Marketing
- Co-designed a comprehensive mobile and web application for bidding and contract management between store owners and snow-plow services

PHP Developer – iClips Network, LLC

June 2008 – September 2008

iClips is an online multimedia network, distributing music-related videos from concerts and festivals.

- Designed and implemented a template system for the iClips website, facilitating the automation of the design and content creation process
- Implemented a mailing list application
- Implemented a statistics package for the aggregation of visitor traffic data

Additional Experience

iOS Development – Helper Helper

Helper Helper is an iPhone app that will allow volunteers to find volunteer opportunities, track their hours and commitments, and compete against friends.

- Co-designed and -implemented the application, including presentation, logic and data tiers
- Designed, implemented and deployed a REST API for the storage and access of user volunteer data

Education

B.A. in Music, Minor in Computer Science, graduated 2009

Washington University in St. Louis, St. Louis, MO

Other Interests

- Music composition, especially that involving interaction with automated processes
- Audio synthesis and programming
- Bicycling and bicycle repair
- Fiction writing
- Philosophy, especially philosophy of mind and cognitive science

Spoken Languages

English (native), Spanish (proficient), French (basic), German (basic).

Publications and references available upon request.