Jason Aylward

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Profile

Creative and motivated software developer with a Masters of Computer Science and entrepreneurial experience

STRENGTHS & SKILLS

• Python and Mobile App Development

• A Background steeped in collaboration, creativity and problem solving

Skills

PROGRAMMING LANGUAGES AND METHODOLOGIES

Python, Objective-C; Object-Oriented Programming, Multi-Threaded Applications, Model-View-Controller Design Patterns, Test Driven Development, JSON, XML, MySQL, Postgres

SOFTWARE DEVELOPMENT SYSTEMS AND ENVIRONMENTS

Git, GitHub, PyCharm, Xcode, Atom, Coda 2, Eclipse

PYTHON FRAMEWORKS AND LIBRARIES

Pandas, SciKit-Learn, Matplotlib, NumPy, SQLAlchemy, iPython Notebook

IOS FRAMEWORKS AND LIBRARIES

Foundation, UIKit, CoreAudio, CoreMotion, CoreGraphics, AVFoundation, MessageUI, NSOperationQueue, Grand Central Dispatch (GCD), ThisAmazingAudioEngine, TestFlight

WEB DEVELOPMENT LANGUAGES AND METHODOLOGIES

Javascript, jQuery, AJAX, Cron, HTML, CSS,

WEB DEVELOPMENT ENVIRONMENTS

Flask, Wordpress, RESTful API Design

OPERATING SYSTEMS

OSX, Windows, Linux, UNIX

Experience

PYTHON ENGINEERING TEACHER'S ASSISTANT, IRON YARD ACADEMY — JAN-APR, 2015

• Worked one-on-one with students learning to program in Python

• Completed all project and homework assignments ranging from general Object Oriented Design to Web Applications and Data Sciences

- Designed ,built and deployed a ride-sharing web application, *RIDEO*, with small team of students which uses a custom built machine learning algorithm in order to pair users together for convenient carpools to work

  - Worked with Python, Flask, Pandas, Scikit-Learn, Postgres, MySQL, RESTful APIs

IOS DEVELOPER/FOUNDER, WRONG QUESTION, LLC – 2014-PRESENT

- Designed a novel Music Education iPhone/iPad App, *Chop Watch*, which incorporates Microphone and Accelerometer capabilities to provide feedback during a user's rehearsal.

- Designed *Maps of Harold Fisk*, which highlights the beautiful cartography of Harold Fisk by geo-referencing his maps and placing them as tiles over an iOS MapView

- Designed an Automated Texting iPhone App, *Monitors!*, for performing musicians who need to quickly, clearly and discretely communicate with their sound technicians.

- Successfully published all three apps to the iTunes App Store.

DRUMMER/BUSINESS MANAGER, VALIENT THORR PRODUCTIONS, LLC – 2005-2014

- Planned and executed annual budgets regarding recording, merchandising and touring.

- Analyzed national and international touring opportunities in terms of short and long-term goals.

- Collaboratively wrote, recorded and toured over 49 states and 18 countries, supporting 5 albums over the course of 9 years.

Education

MASTERS OF COMPUTER SCIENCE

North Carolina State University, 2004; Concentration in Network and A.I. Applications

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

North Carolina State University, 2002, Graduated with Honors

ADDITIONALLY:

East Carolina University, 1996-1999, Coursework completed for a B.A. in Philosophy

Activities

COCOAHEADS & NSCODERS

Local iOS and Mac-developers interest group