

Patrick Cockwell

3B Software Engineering | 20349613

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I am a software engineering student interested in large data set analysis and visualization with experience in backend web design. I am looking to learn more on these topics and improve my design and development skills.

SKILLS AND QUALIFICATIONS

Languages

- **PHP**: Over 2.5 years of experience obtained working on projects including Orion, AuToDo, RoomClerk, and various analytics dashboards
- **MySQL**: Over 2.5 years of experience gained working on a wide range of tools and tasks
- **Python**: Approximately 18 months of usage and experimentation for scripts in the workplace and personal tasks
- Very experienced with **HTML**, **CSS**, **Javascript**

Tools and Software

- Well versed with the **Vertica** Analytics Platform as a result of analytics work in prior internships
- Comfortable with **Unix** command line
- Experienced with multiple version-control systems including **Git** and **SVN**
- Frameworks/Toolkits: **CodeIgniter**, **Laravel**, **jQuery**, **Twitter Bootstrap**
- Editing Tools: **vim**, **Textmate**, **Sublime**, **Notepad++**, **PHPStorm**
- Operating Systems: **Linux**, **Mac**, **Windows**

Other Skills

- Have resided in **Velocity**, an exclusive residence incubator focused on **entrepreneurship** and **technology** for 4 terms
 - Comfortable working in team environments
 - Passionate about computer programming, web development, and large data visualization
 - Currently interested in the field of machine learning
 - **Fully bilingual**, and fluent in English and French
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RELEVANT PROJECTS

AuToDo

You Have Time

September 2012

- Building a web application that uses scheduling algorithms to systematically build a daily schedule for users
- Using CodeIgniter for backend, as well as Bootstrap, jQuery and jQuery UI for front end
- Once complete, the system will allow for simple and seamless integrating with Google Calendar to provide a daily schedule that reminds and prompts users to complete the tasks listed

Orion Analytics Project

Real Time Data Graphing

October 2011 - September 2012

- Determined specifications, designed, and helped to build a real time graphing tool for my workplace
 - Built version 1 of a real-time data visualization tool using PHP, jQuery, AJAX, and interactions with Graphite, a real time time-series data aggregator
 - Revamped the project using CodeIgniter and Bootstrap along with the help of coworkers, and eventually open-sourced (see below for link) the project during a returning internship
 - Currently working to keep the system up to date, and provide feature upgrades
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WORK EXPERIENCE

GREE International Inc./Funzio Inc.

Analytics Engineering Intern

May 2012 - August 2012

- Developed multiple analytical display dashboards from the ground up for the Analytics Engineering Team
- Helped design analytics databases for games in development
- Revamped and worked towards open-sourcing the Orion Analytics Project (mentioned above)

Funzio Inc.

Analytics Engineering Intern

September 2011 - December 2011

- Designed a crucial data dashboard for executives that helped monitor daily activities
- Helped manage the flow of data through the analytics platform to ensure a stable system
- Accomplished many tasks spanning from Python script work to iOS development

Arista Networks Inc.

Web/Database Developer

January 2011 - April 2011

- Updated multiple internal infrastructure tools that helped manage test centers in several locations worldwide
 - Was independently tasked with managing and updating the infrastructure for the company
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ADDITIONAL INFORMATION

Github: <https://github.com/pcockwell>

Orion Analytics: <https://github.com/gree/Orion>

References: Available by request