Mark Lyons

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Skills

Node.js, React Native, Flutter, Dart, Swift/iOS, jQuery, Ext JS, Java, C, Ruby, Python, PHP, Android, HTML5, CSS3, JavaScript, MySQL, Postgres, WordPress, git, ns-3, OCaml

Education

University of Maryland, College Park
B.S. Computer Science, May 2018

Experience

Software Engineer - (September 2018 – present) - **Lascar Electronics**

- Led development of second-generation flagship iOS app, resolving 70 critical issues including a transition to Swift 4.
- Developed a web-based front-end for the setup procedure of a new product line, as well as some automated testing for the overall software.
- Built a Firebase server which allows customers to receive customizable, real-time alerts on Android and iOS apps.
- Wrote a cron script in Node.js that compiles and delivers daily sales statistics to parent company in the UK.
- Developed a real-time sales analytics dashboard with HTML, jQuery, and PHP for the company intranet.

Application Development Intern - (June 2016 – August 2016) - **JPMorgan Chase & Co.**

- Utilized Ext JS and Java Spring to improve the efficiency of an outdated investment portfolio viewer app which was originally built in Adobe Flex.
- Led development of front-end Ext JS component design and functionality.
- Leveraged Ext Direct to reduce communication latency with Java Spring back-end by 60%.
- Translated existing in-house design guidelines into thousands of CSS classes so that this new application matched the original design down to the pixel.

Projects

Sitelytics - github.com/marklyons/Sitelytics - Built in January 2019

- Sitelytics is an iOS app that allows users to view live earnings data for Amazon Associates, an affiliate program.
- Currently this data is only available on the Amazon Associates website. Sitelytics provides a quicker method of accessing this data on a mobile device – getting this data on a mobile web browser takes 3x longer.
- Written in Swift – utilizes an emulated web browser to simulate a login and extract the earnings data.
- All code is open-source on GitHub and I am continually adding new data sources and developing new features.

CheerUpper - No longer actively hosted - Built in April 2015
- Built a web-app that strives to make the internet a better place by allowing strangers to offer words of encouragement anonymously via the Twitter API and a tweet filtering algorithm.
- Wrote Python code that extracted select tweets using the Twitter API and then filtered this dataset further with a sentiment analysis API and a custom algorithm. The app also utilized PHP, JavaScript, HTML, and CSS.
- Winner of 'Best Use of Twitter API' award at Bitcamp, a hackathon hosted by the University of Maryland.
- After being used by over 5,000 people, the app received press on CBC Radio and ABC Australia, among others.

FIFA Encyclopedia - fifaencyclopedia.com - Built in December 2010
- Initially built as a purely static HTML website, dynamic functionality was later added using PHP.
- As content grew over 100 pages, each with unique HTML formatting, it became necessary to build a completely custom WordPress theme using JavaScript, PHP, and MySQL.
- To date, this website has generated $40,000 in advertising and affiliate revenue and 13M pageviews.

For more information on these projects, as well as some of my other projects, please visit marklyons.github.io