Rob Calcroft

WEB ENGINEER

Broadway House, Broadway Road, Windlesham, Surrey GU20 6BU

+44 7708 255 740 | rob@calcroft.com | calcroft.co | robcalcroft | robcalcroft

Education

University of Portsmouth   *Portsmouth*

BSc COMPUTER SCIENCE (HONS) WITH FIRST CLASS HONOURS   *September 2012 - June 2016*

- Designed, developed and documented a wish-list creator with public **OAuth2 API** built using **Node.js** & **PostgreSQL** for final year dissertation. It was awarded a **first**. Report at **calcroft.co/dissertation** & source code at **github.com/robcalcroft/wishlist-api**
- Dissertation was **awarded the Clever Touch prize** for Most Original Business System
- Participated in various hack days during the course. Projects included an animatronic Sorting Hat from Harry Potter, an HTTP controlled Arduino and some bots for the Telegram messaging platform

The Sixth Form College Farnborough   *Farnborough*

3 A2 LEVELS INCLUDING COMPUTING & MATHEMATICS, 2 AS LEVELS   *September 2010 - June 2012*

Experience

Opsview   *Reading*

FRONT-END DEVELOPER   *July 2016 - Present*

- Developing scalable front-end software for a monitoring platform.
- Primarily using **ExtJS** coupled with vanilla **JavaScript**, **CSS**, **SCSS / SASS**, and **HTML** in an **agile** environment.
- Conduct formal code reviews for front-end team using feature branches to manage new functionality
- **Line manager and team leader** for the front-end web team, supporting them with, pair programming, one to one meetings and career direction
- Manage **hiring** process for interns, performing telephone and face to face interviews, as well as **conducting technical tests**
- **Perform employee annual reviews** providing feedback to management about employee progression
- Required to document new processes and update existing documentation in a technical but comprehensible manor
- Used **Jenkins** and **Gerrit** to manage sustainable continuous integration of applications
- Maintain **Vagrant** development environments using **Ansible** as the provisioning tool
- Required to understand and refactor challenging legacy code
- Built tools to interact with **Amazon S3** using **Node.js**

Opsview   *Reading*

TECHNICAL INTERN   *June 2014 - July 2015*

- Placement year in industry from degree course
- Began in Customer Success department assisting with internal queries and upgrading and maintaining **Git, LDAP and DNS** servers.
- Was **moved to Engineering department after redeveloping company intranet page** in down time.
- Worked with **ExtJS, HTML, CSS & SQL** to help ship companys largest release, Opsview 5.
- Heavily involved with documenting new release and new practises.
- **Mentored two new interns** in both Customer Success and Engineering departments, helping them with queries and having meetings to teach company practises as well as computing skills.
- Offered **permanent employment** after degree course

University of Portsmouth   *Portsmouth*

IT HELP ADVISER   *September 2013 - June 2014 & September 2015 - May 2016*

- Helping students with computer queries such as account and profile issues.
- Fixing basic computer issues eg re-imaging and policy issues.
- Required ability to multi-task and explain issues to non-technical users.

British Pullman, Orient Express   *London*

PORTER   *July 2010 - January 2013*

- Part time employment working as part of a small team of 4 kitchen staff, assisting with passenger queries such as directions.

Open Source Projects

Mondoweb

GITHUB.COM/ROBCALCROFT/MONDOWEB

- Built using banking startup Monzo's - **monzo.com** - OAuth2 authenticated API
- Provides a web interface for users to view their Monzo bank account
- Community members have contributed to the application which required discussions about their code style and approach
- Versioned using the **SEMVER** versioning model
- Received positive feedback from community members on Monzo's Slack channel and **25 stars on GitHub**
- Built using Facebook's **React**, **Node.js** and **Webpack** with plans to add state manager Redux

calcroft.co

GITHUB.COM/ROBCALCROFT/CALCROFT.CO

- My personal website, which has gone through many iterations
- Optimised the site for performance; gzipped source without images is a little over **4kb**, making it load incredibly fast even for users with **slow devices or networks**
- Utilised **LetsEncrypt** to provide me with a sustainable HTTPS solution
- Runs with **NGINX** and **PM2** on a **Digital Ocean** server
- I wrote about the aritecture of the site a couple of times, first when I discovered React **blog.calcroft.co/using-reactjs-to-rebuild-my-website** and then when I focused on performance and fast loading **blog.calcroft.co/from-233kb-to-3-8kb-a-website-re-engineering-story**

Offline Train Times

GITHUB.COM/ROBCALCROFT/CHOOCHOO

- Experiment for university module into Service Workers and offline web experiences
- Used National Rail API to show train times for specified journeys and cached files and results on user's browser using **Service Workers** and localStorage for state saving
- Experiment showed relative ease of implementing **offline experiences** for uses with slow or non existent network connections but slow adoption of technologies in current browsers

OTHER OPEN SOURCE PROJECTS ARE AVAILABLE AT GITHUB.COM/ROBCALCROFT AND CALCROFT.CO/#PORTFOLIO

Writing & Speaking

Blog

BLOG.CALCROFT.CO   *August 2015 - Present*

- Discuss the web and challenges it faces & how to tackle them
- Document projects and discoveries
- Share new practises and technologies

Talk

OVER-ENGINEERING IN THE WEB   *November 2016*

- Spoke at the University of Portsmouth at the IT Society's Lightning Talks about how over-engineering in the web affects developers and users

Activies

sk8 Jam (Roller skating sessions)   *Camberley*

STEWARD & INSTRUCTOR   *2005 - 2012*

- Inline roller skating instructor for all age groups and all abilities
- Acted as steward for roller skating sessions which involved organising games, supervising proceedings and enforcing rules

Interests

- Travelling
- Working on and contributing to open source software
- Gaming
- Roller skating