Graham Bates

Senior Web Application Developer

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## Profile

Senior Web Application Developer with over 10 years of complex web application development, with keen interest in maximising User Experience. Strong background in server side technologies including Python/PostgreSQL and Java/Transact-SQL stacks, with particular experience in extracting meaning from large data sets and deciding on appropriate visualisation approaches.

Implemented complex enterprise applications in varied domains including Smart Metering, Payroll, Online Payments, Antibody production and e-Commerce, working with both legacy code and green-field developments. Strong advocate of Agile techniques including frequent software deliverables, Kanban Boards, Continuous Integration with both integration and unit tests being a core necessity.

## Skillset

Javascript ECMA 5 and 6, AngularJS/UI-Router, lodash/underscore, D3, HTML5, CSS3, SASS, ng-animate, Grunt, Bower, Node, AWS, Python, SQL Alchemy, PostgreSQL, DynamoDB, Java, C#, T-SQL, Git, SVN, Linux, Windows.

## Contract Employment

**Bloom and Wild – Web Application Developer** *March 2017 –Late April 2017*

* Replaced legacy checkout process with Angular 1.5 based solution
* Introduced E2E framework and tests

**Big Group – Web Application Developer** *January 2017 –3rd March 2017*

* Ensured Angular based Spotify-like music search tool deliveries were met on time.
* Closely interacted with designers implementing **BEM** **SCSS** based layout

**Minimal Metrics, (Remote) – *UI Engineer*** *September 2016 – November 2016*

* Architected **AngularJS 1.5** solution forHigh Performance Computing Dashboard
* Rewrote **Python** based backend leveraging JSON capabilities of **PostgreSQL**
* Introduced multiple **D3** Based visualisations
* Introduced team to more modern web development practices.

**Ginger Payments, Amsterdam – *Lead Angular Developer*** *June 2015 – September 2016*

* Angular team lead for front end **AngularJS** on-boardingplatform for a major bank.
* Oversaw and implemented transition away from unstructured legacy Angular code base.
* Introduced team to more modern web development practices.
* Integrated **Angular Schema Form** based solution.
* Introduced E2E testing platform (Protractor based solution with over 50 tests).

**Sargent Disc, London – *Lead Developer*** *November**2014 – June 2015*

* Team lead on complex **AngularJS** on-boarding solution designed for Marvel Studios.
* **UI­ Router** based application.
* **Python** based image API designed to generate document thumbnails.
* **E2E** tests using **Jasmine** syntax in combination with Protractor and Jenkins
* **Grunt/Bower** build system
* Integrated **HTML5**/**CSS3** based **responsive** designs across 3 target screen sizes.
* Designed **REST API** for client
* Redesigned and normalised **PostgreSQL** schema for client

## Permanent Employment

**Cyan Technology, Cambridge – *Senior* *Web Application Developer*** *May**2013 – October 2014*

* **AngularJS** applications developed for use by Indian and Brazilian electricity providers to monitor and diagnose smart meter network installations.
* **UI­ Router** state based system with **ng­-animate** page transitions
* **Q** promises library
* **HTTP Interceptors** for authentication and error logging
* Over 90 **E2E** and **Unit** tests using Jasmine with mocked HTTP backend
* **Grunt** build system
* Implemented all **HTML5** and **CSS3 Bootstrap 3** basedstyles
* **Google Maps API**
* **D3** SVG based metering event timeline and mesh network map **visualisations**.
* **Crossfilter.js** for very large dataset manipulation and charting
* **Underscore** based functional programming techniques.
* **Python** based replacement for legacy API using Python/Twisted/SQLAlchemy.
* **PostgreSQL** big data query design and optimisation.
* **Git** source control.
* **Linux** ­server management, log analysis and admin tasks.

**Abcam, Cambridge - *Senior Software Engineer*** *September 2006 – May 2013*

* **Java 7** Developed many core modules for in-house Laboratory Information Management System
* Visualising Large datasets
* **SQL** Strong knowledge of SQL Server 2008 including CTEs, functions, indexes
* **C#** MVC 3.5. Razor, Data modelling, OO design
* **Git** source control.

## Other

**Nangi Village, Nepal - *Volunteering IT skills*** *February 2006 – May 2006*

Volunteer project installing Wireless networking in Himalayan villages.

## Education

**September 2000 - June 2003: University of Nottingham**

* BSc in Computer Science (2:1)

**September 1997 - June 1999: Netherhall Sixth Form, Cambridge**

* A level Physics B
* A level Computing B
* A level Mathematics B

## Experience

The experience accumulated in over 10 years of professional software development ensure I know the right questions to ask, the appropriate technologies to use, and the pitfalls to avoid when developing complex Web Applications. Strong problem solving skills in combination with a proven ability to fully comprehend a client’s business rules, requirements and processes ensure high quality code is delivered from the outset.

An enthusiasm for communicating best practices means I enjoy engaging in technical discussions with fellow developers regarding architecture choices, code optimisations, code readability, along with discussions involving designers, UX experts and users regarding the usability and workflow of the end product.

## Personal Details

Driving License: Full, Clean

Nationality: British

## Other Interests

Running and Cycling**,** Photography, Gardening, Music, Art, Scientific Talks