Ben Gladman

ben.gladman@gmail.com
London, UK

August 2021 → June 2024 (Contract)

Standard Bots ▪ Full Stack Developer

`React` `THREE.js` `react-three-fiber` `Docker` `TypeScript` `Node.js` `PostgreSQL` `FeathersJS` `Next.js` `Vite` `WebRTC` `GitHub Actions`

Developing the control systems and programming environment for a robot arm used for industrial automation.

- *Visualization* – using Three.js to visualize the state of the robot arm and its environment.

- *Integration* – developing the Node.js backend to integrate with the robot arm and linked devices, to run routines and ad-hoc commands.

- *Simulation* – implementing hardware and communication simulations of the robot arm and linked devices in Node.js for use in testing and development.

- *Routine Editor* – creating an approachable no-code/low-code interface for less technical users to be able to program the robot.

- *Migration to self-hosted* – migrated away from Firebase to a fully self-hosted solution using PostgreSQL and FeathersJS.

May 2020 → April 2021 (Contract)

HSBC ▪ Front End Developer

`Electron` `JavaScript` `TypeScript` `RxJS` `WebdriverIO` `CSS Modules` `Storybook` `TeamCity`

Front end development in the core team for the trading and risk platform used by several lines of business within the bank.

- *New Application Shell* – rewrite of the layout engine and service adapters from an older framework into React and RxJS, to improve maintainability. The shell is highly configurable, allowing the user to add, remove and rearrange tens of components across multiple tabs and nested layouts in an intuitive way.

- *Modernising the codebase* – by introducing Jest, Storybook, TypeScript and CSS Modules, and carrying out a complex upgrade of WebdriverIO.

- *Theming* – added theming capability on top of extensive existing CSS, using CSS custom properties.

June 2018 → March 2020

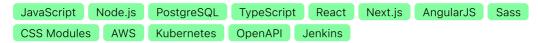## Adaptive Financial Consulting ▪ Front End Developer

`TypeScript` `React` `Redux` `redux-observable` `RxJS` `Selenium` `Cypress` `styled-components` `Emotion` `Storybook` `Jenkins`

Front end development on highly dynamic and interactive financial web applications.

▪ *FX orders* – module integrating into the trading platform at a tier 1 investment bank. Working on client site in a mixed product development team of consultants and direct employees. Components included the order blotter and single and multileg order tickets with live ticking prices and fills. The tickets need to update efficiently so that the application can show up to 25 simultaneously.

▪ *Cryptocurrency exchange* – web client for private and institutional investors. Responsive design usable on desktop and mobile devices. With chart, order blotter, trade feed, order book and order ticket. The trade feed and order book were designed to cope with 100ms update frequency.

▪ *Basket trading* – application for a tier 1 investment bank, with unlimited scrolling workspace and blotter with expandable nested rows, ticking prices and fills.

September 2016 → June 2018

Trussle ▪ Full Stack Developer

`JavaScript` `Node.js` `PostgreSQL` `TypeScript` `React` `Next.js` `AngularJS` `Sass` `CSS Modules` `AWS` `Kubernetes` `OpenAPI` `Jenkins`

Full stack development of customer facing and back office software in a startup online mortgage brokerage. I introduced TypeScript, Webpack, React and Swagger into the development stack.

▪ *Customer Website* – developed a new on-boarding application using Next.js and implemented OAuth 2 sign-in using Passport.js.

▪ *AWS Lambda* – process to match 1,000s of customer details with 10,000s of remortgage deals.

▪ *Back Office System* – started the shift from server rendered views to using React to allow more complex UI and implemented client side Typescript.

▪ *Back End* – migrated the database from MongoDB to PostgreSQL and implemented a reporting schema.

September 2005 → August 2016

CACI ▪ Team Leader, Software Engineer

`C#` `Xamarin` `UniData` `JavaScript` `Android` `UWP`

Full stack development of software for both internal and external clients in a range of business sectors.

▪ *Mobile app* – an app for Android and Windows Phone for time recording and work calendar.

▪ *Web UI* – an ERP application with staff planning, project planning, payroll and accounting modules.

▪ Leading a team of 8 engineers.

TCO ▪ Software Engineer

`UniData` `JavaScript`

Requirements analysis, design, engineering and support of database applications for a wide range of business needs.

- ▪ *Workflow engine* – highly configurable integrated workflow used in many business areas (invoice registration, inspection management, social care), allowing direct links to forms across the software.

- ▪ *Rostering and staff planning* – graphical an intuitive application to allocate work to staff and monitor in real time. Used by our customers to plan thousands of care workers.

Education

1995 → 1996

University of Birmingham ▪ MSc Cognitive Science

(Distinction)

Spent middle term at University of Padua, Italy, where I designed and carried out a psychology experiment.

1992 → 1995

University of Reading ▪ BA (Hons) Philosophy

(2:1)

One term spent at Leiden University, Netherlands. Received a 1st for my final dissertation on the Philosophy of Science.