

# Max Bye

## Senior Software Engineer

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### SUMMARY

**Frontend developer with backend experience and over 14 years of industry expertise**

I specialize in web and mobile development, delivering high-quality, user-focused solutions across diverse platforms. I'm passionate about client engagement, product design, and stakeholder collaboration. My enthusiasm for technology drives a continuous pursuit of innovation, leading to meaningful improvements in user experience and project outcomes.

### EXPERIENCE

Senior Software Engineer 08/2023 - Present

bp/ Open Energi

- Worked directly with bp's power trading team to design and develop a grid-scale battery optimization platform in React.
- Designed and developed a prototype for bp's Advanced Energy Solutions team and demonstrated it at bp headquarters to key stakeholders.
- Implemented CI/CD pipelines in GitHub and GitLab for front-end deployments, then used Kubernetes to further reduce deployment time and infrastructure costs.
- Upgraded React version on insights platform, resulting in a 60% faster load time.
- Azure Data Lake infrastructure that resamples time-based data more efficiently and 10x more cost effective than the existing MySQL solution.

Wordpress Developer 01/2025 - Present

Future Resilience Forum

- Worked alongside Downing Street Chief of Staff to design and develop [futureresilienceforum.com](#) for a London-based security forum.

Website Creator 06/2024 – 11/2024

Frazzled

- Designed and developed [frazzledcafe.org](#) in React, a website that helps people find meetups focused on mental wellness.

Senior Software Engineer 02/2023 – 08/2024

Dare

- Led multiple frontend teams on various grid-scale battery web projects, ensuring seamless collaboration and successful delivery.
- Developed an online storage platform in React that was showcased at the 2024 Renewable Energy Summit.
- Designed in Figma and developed in Excel, a plugin for traders to view battery insights.

Course Leader 11/2021 – 02/2023

General Assembly

- JavaScript, Angular and React course leader and teacher.
- Software Engineering Immersion course leader and teacher.

Software Engineer 07/2017 – 02/2023

TechSoup

- Built a vanilla JavaScript data framework that is used across multiple projects.
- Built a component library in React (and storybook) that was used across multiple projects.
- Designed TechSoup several products for Microsoft.
- Developed several e-commerce applications in React.
- Developed an organization management system with Redux, later simplifying the architecture by transitioning to Jotai.

Senior Software Engineer 09/2016 – 07/2017

Plumis

- Designed and developed a fire sprinkler mapping system using JavaScript, improving visualization and efficiency in building safety planning.
- Migrated application from LEMP to MEAN stack, resulting in a 40% performance improvement and enhanced scalability.

### KEY ACHIEVEMENTS

💬 Mission – Driven Design

Collaborated with prominent leaders in government and health to translate their strategic visions into impactful digital experiences.

🔌 Optimization Platforms

Technical support for bp's renewable and flexible energy teams. We are currently ranked as the best grid-scale battery optimizer in the UK.

🎓 Teaching and Mentorship

Former software engineer and JavaScript teacher. Have led coding workshops at Aviva, Facebook and HSBC. UK.

### KEY SKILLS

#### FRONTEND DEVELOPMENT

Typescript · React · Ember · Vue  
Sass · HTML5 · React Native · Bootstrap  
Next.js · AJAX · TailwindCSS · Jest · Gulp  
React Redux · Webpack · Ember.js  
Selenium · Cypress · CSS3 · Flutter

#### BACKEND DEVELOPMENT

Node.js · Java · Go · Python · Microsoft Fabric  
Postgres · Azure · Lakehouse · Firebase · MongoDB ·  
SQL · C# · Sentry · Stream Analytics · Django · AWS  
Cloudfront

#### CMS

Wordpress · Drupal · Strapi · Jekyll

#### PROJECT & TASK MANAGEMENT

Git · Jira · BitBucket · Trello · Azure DevOps ·  
YouTrack · Clickup · Confluence · Agile Scrum

#### CI/CD & DEVOPS INTEGRATION

Github Actions · GitLab CI · Docker ·  
Podman · Kubernetes

#### DESIGN

Adobe suite · FIGMA · Sketchup · InVision

EXPERIENCE

Frontend Engineer 08/2016 – 09/2016

Rebel Minds

- Created and launched the WordPress website for [The Entrepreneurs Network](#).
- Designed and developed the [Go-Ahead website](#) in React.
- Created an iOS videogame using Parse for 10,000 concurrent players player cloud gaming.

Software Engineer / Product Manager 01/2016 – 08/2016

Virtually Free

- Designed and developed the Stress Free app for iOS and Android (over 20,000 downloads).
- Contributed as a developer on the Oculus Rift project for VR experiment to prevent anxiety.
- Spoke on a panel at Digital Health London (expo event) and our team won the hackathon.
- Worked on C# unity version of Stress Free with videogame development team.

App Developer 11/2015 – 01/2016

The School of Life

- Designed and developed an online videogame for 100 Questions with Alain de Botton.

Arduino Developer 11/2014 – 10/2015

Entrepreneurs First

- Developed prototype on Arduino R2 to measure people’s sweat and provide recommendations.
- Created a recommendations portal with Bootstrap in AngularJS.

Website Designer 04/2014 – 11/2014

Kids Company

- Designed online giant brain with Adobe Flash in ActionScript. People could buy virtual neurons that raised money brain cancer.

Lead Trainer and Course Developer 12/2013 – 04/2014

Freeformers

- Web developer and designer for the Freeformers and Makethingsdostuff websites.
- Created and managed six volunteer hubs, teaching coding to underprivileged children.
- Developed a JavaScript coding workshop for clients such as Barclays Bank, Aviva, and Facebook.

Co-Founder 02/2013 – 10/2013

Boxticks

- Helped raise a seed round investment.
- Designed and developed a travel and adventure website.

Internship: Website Developer 09/2012 – 12/2012

M&C Saatchi

- Won the M&C Saatchi hackathon.
- Developed websites for Coca-Cola, Jameson Whiskey, and created a Twitter app for the 2012 Olympics.

Internship: Hardware Specialist 07/2007 – 11/2007

Goldman Sachs

- Assisted with hardware and technical support.

EDUCATION

Master of Computer Games & Entertainment 09/2011 – 06/2012

University of Goldsmiths London

BSc Physics 09/2008 – 06/2011

Southampton University

CERTIFICATION

CompTIA Security+ 701

Computer security, including cybersecurity threats, vulnerabilities, and assessments, incident response, and hybrid and cloud environments.

JLPT N5

Japanese-language proficiency test.

INTERESTS

 Music

I have a few albums out on Spotify.

 Making videogames

I made a series of online games that can be played from my website.

 Art

I have published a comic book and I love to paint.

 Soccer

I play weekly league games.