

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.