


Jake Bowkett

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Qualifications Summary

- 10 years full stack experience.
- TypeScript, React, Node.js, Vite, Go, SQL, Docker, Azure DevOps, Google Cloud.
- UX and interaction design + professional multimedia background.

Professional History

Cortical Labs

Senior Full Stack Software Engineer / Senior UX Designer

Present–
2023

Responsibilities

- Researching and deciding upon the tech stack for the company's internal lab management software.
- Architecting the application for ease of testing and setting up the continuous integration actions.
- Assessing the risks of the application's dependencies; i.e., is this project funded? Is this company reliable? What other companies use it? Etc.
- Interviewing the company's biologists to gather requirements.
- Constructing a reusable component library in Figma.
- Implementing OAuth 2.0 single sign-on with Azure's Entra ID (formerly Active Directory).
- Collaborating closely with the CTO on major technical decisions regarding infrastructure and deployment.
- Providing assistance to others in the company when various design and web needs must be addressed.

Achievements

- **Successfully designed and programmed the interface for the CL1 unit, a hardware device that sustains neurons.** It needed to be robust and ready to demo in high-stakes environments, such as the 2024 MARS conference hosted by Amazon founder Jeff Bezos.

CSIRO

Senior Full Stack Developer

2023–
2021

Responsibilities

- Maintaining and expanding a large React component library.
- Addressing technical pain points before they become an issue.
- Collaborating with the product manager and designers to review technical details of proposed features.
- Participating in feedback sessions with users and prospective clients.
- Mentoring junior developers.
- Scoping features and breaking them down into individual tasks.
- Designing and modifying APIs, schema validation.

- Writing SQL database queries and migrations.
- Maintaining CI pipeline and deploying production, integration testing.

Achievements

- **I took a difficult to understand endangered species dataset and built a geographic visualisation for it.** This enabled clients to see which species intersected with the boundaries of their operations.
- **I created a supply chain charting feature using A* pathfinding.** It allowed specifying the relationships between different stages (e.g., primary production, packaging, retail, etc).
- **I championed junior developers and designers being present during meetings with clients.** This resulted in a better understanding of client needs and oriented the junior's mindset to be more accepting toward changing priorities, improving morale.
- **I arranged joint developer and designer meetings to sort out process inefficiencies.** This resulted in a significant reduction of miscommunication when handing over designs to developers.

StoryDevs

Full Stack Developer, UX Design, Asset Creation

2020–
2018

Achievements

- I developed a full-featured SPA without frameworks, including server set-up and maintenance.
- I created an account system that allows each user to have multiple "personas" they can switch between efficiently.
- I create a talent database that builds a resume/portfolio hybrid for users to showcase their abilities.
- I built a WYSIWYG text editor for use on the forums and in messages.

Digital Media Professional (Freelance)

Pipeline Development, Asset Creation, UX Design

2017–
2016

Responsibilities

- Advising on asset production pipelines to ensure efficient product development, minimising redundant work and blockages.
- Direct creation of digital media assets, art, and user interface elements.

Web Developer (Freelance)

Full Stack Developer

2015

- Creating bespoke sites with account systems and CMS.

Active Designs

Front End Developer

2014–
2013

Education

TAFE

Certificate IV in Small Business Management

Newstead College

Computer Science

Recent Work

Cortical Labs

Digital interface for Cortical Lab's CL-1. [See news article.](#)



CSIRO

Polygon tool for *Sable*. It draws operation boundaries on maps. [See animation.](#)

Sable's visualisation of endangered habitats intersecting with operations. [See animation.](#)

