

Ben Winding

Software Engineer

 Australian
 14 February 1989
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Highlights of Qualifications

Software Engineering

- Developed and maintained several webapps and browser extensions (See: <https://benwinding.com/projects>).
- 5 years of [open-source](#) experience, developed 20 [npm packages](#) used in production, for React, Angular and Quill.Js.
- Experienced in building micro-services using Google Cloud, Docker and Linux VM's.
- Has a passion for developing clean, flexible software architecture to solve complex problems.
- Developed continuous integration pipelines for system deployments using Github Actions and CLI tools.

General

- Excellent problem solving and decision making skills.
- A team player and enjoys working with and learning from others.
- Self-motivated with a willingness to learn new skills and perspectives.
- Work well under pressure and enjoy working in a fast paced environment.

Project Management

- Project owner of the successful FMLink web-application by Resvu, an system for facility management.
- Excellent record of prioritising and managing multiple concurrent projects.
- Worked with senior project managers on large manufacturing projects.
- Effective and efficient at producing high quality documentation for projects.
- Maintain regular communication with the client throughout the project.

Programming Skills

Cloud Stacks: Google Cloud, Firebase, Digital Ocean, Github Actions
Back End: Nodejs, Express, Larvel, Python, Java, C++
Front End: Angular, React, Svelte
Desktop: .NET, Electron, Java
Sys Admin: Ubuntu, Redhat, Ms Windows, L^AT_EX
Embedded: Arduino, Raspberry Pi, Lejos, Mach3 CNC

Employment

2021 Jul	to	Now	Software Engineer at Canva	Adelaide, South Australia
<ul style="list-style-type: none">• Lead developer for the Linked Folders in Brand Kits project• Extension of the Brand Kit Fonts feature in Canva• Java sub-service refactor for key Java Services• Multi-tenant refactor of the Canva Content Scheduler				
2019 Mar	to	2021 Apr	Lead Software Engineer at Resvu	Thinclab, South Australia
<ul style="list-style-type: none">• Managed 3 products, FMLink, Communitilink (Version 2) and an Internal Admin Panel.• Developed architecture for the version 2 of the Communitilink Whitelabeled System.• Produced a Data Table library (ngx-auto-table), which simplified systems and increased code reuse.• Integrate a flexible authentication system, which allows user contexts to be switched seamlessly within the application.• Implemented a one-click deployment solution, with automated unit-testing.				
2018 Aug	to	2019 Mar	Software Engineer at Resvu	Thinclab, South Australia
<ul style="list-style-type: none">• Project Owner of the "FMLink" web application, a Facility Management tool for large companies.• Integrated Google's material.io javascript library into legacy applications.• Implemented a database schema validator for Google Firestore, to ensure apps work on the production database.• Helped integrate OAuth signin and user permissions into the Google Firebase backend.• Used management systems including; Bitbucket, Jira, Assana, Stride and Trello.				
2015 Jun	to	2018 May	Mechanical Engineer at Bargain Steel Centre	South Australia
<ul style="list-style-type: none">• Design and manage the production of Sheds• Liasing with clients to determine business requirements• Responsible for CAD modelling and shop drawings• Procuring and ordering materials and components needed for jobs• Automating CAD procedures via scripting• Assisted in designing the website				

2014 Dec	to	2015 Apr	Graduate Production Engineer at Smart Fabrication Kilburn, South Australia
			<ul style="list-style-type: none"> ● Control the delivery and processing of materials and equipment. ● Ensure traceability of all material used, regarding certification and conformity. ● Procurement of material and components from suppliers. ● Assisting the production staff in producing quotes and estimates.
2014 Jul	to	2014 Sep	Graduate Project Engineer at Cold Logic Port Adelaide, South Australia
			<ul style="list-style-type: none"> ● Responsible for producing technical drawings including; P&ID's and fabrication drawings. ● Managed material ordering and project changes regarding drawings. ● Increased productivity in Engineering department through efficient modelling techniques.
2013 Jul	to	2014 Mar	Drafter at Kova Engineering Vancouver, Canada
			<ul style="list-style-type: none"> ● Responsible for producing technical drawings including; fabrication drawings, lift plans, as built's and weld maps. ● Managed small projects including spreader systems, for lifting operations. ● Produced Finite Element Analysis' on static and dynamic models. ● Developed successful responsive website for the company.
2011 Oct	to	2012 Nov	Drafter at Smart Fabrication Port Adelaide, South Australia
			<ul style="list-style-type: none"> ● Responsible for creating technical drawings for fabrication. ● Refined current product design process, setting clear design guidelines to improve quality. ● Managed projects including pipe routing, structural frames and machinery components. ● Worked closely with senior project managers to solve scheduling and logistical problems.

Education

2015	to	2018	Master of Computing and Innovation, University of Adelaide, Adelaide Gpa: 5.78
2008	to	2012	Bachelor of Engineering, The University of South Australia, Adelaide Honours Major: Mechanical and Mechatronics Thesis: Development of Cooperative Tasks for Autonomous Humanoid Robots - Advisor: Dr. Sang Heon Lee Gpa: 5.1

Volunteer Work

2018	to	now	President, Kiteboarding South Australia, Adelaide
			<ul style="list-style-type: none"> ● Responsible for organising kiteboarding events and competitions during the year. ● Welcoming new members to the sport. ● Ensuring the kiteboarding community is a safer and happy place for people of all backgrounds.
2015	to	now	IT Consultant, Oz Outback Odyssey, Adelaide
			<ul style="list-style-type: none"> ● Participated in several events, helping organise competitors during the event. ● Built and manage the website, hosting and email.

Interests and Activities

[Open-Source](#) | [Building Things](#) | [Writing](#)
[#kitesurfing](#) [#tennis](#) [#arduino](#) [#robotics](#)

References

Available on request