

# BEN WINDING

## FULL-STACK DEVELOPER

 Australian & US Citizen  
 14 February 1989  
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 [hello@benwinding.com](mailto:hello@benwinding.com)  
 <https://benwinding.com>  
 <https://github.com/benwinding>

## HIGHLIGHTS OF QUALIFICATIONS

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### SOFTWARE ENGINEERING

- Developed and maintained several webapps and browser extensions (See: <https://benwinding.com/projects>).
- Published 8 [npm packages](#) used in production, for **react**, **angular** and **Quill.js**.
- Experienced in building micro-services using GCloud and Docker.
- Has a passion for developing clean, flexible software architecture to solve complex problems.

### 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.
- 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, AMAZON, LAMP, MEAN  
Back End: NODEJS, EXPRESS, LARVEL, PYTHON, JAVA, C++  
Front End: REACT, ANGULAR, HTML, PUG  
Desktop: .NET, ELECTRON, JAVA  
Sys Admin: UBUNTU, REDHAT, MS WINDOWS, L<sup>A</sup>T<sub>E</sub>X  
Embedded: ARDUINO, RASPBERRY PI, LEJOS, MACH3 CNC

## EDUCATION

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2015 TO NOW	MASTER OF COMPUTING AND INNOVATION, <b>The University of Adelaide</b> , ADELAIDE GPA: 5.78
2008 TO 2012	BACHELOR OF ENGINEERING, <b>The University of South Australia</b> , ADELAIDE <i>Honours</i>   MAJOR: MECHANICAL AND MECHATRONICS THESIS: DEVELOPMENT OF COOPERATIVE TASKS FOR AUTONOMOUS HUMANOID ROBOTS - ADVISOR: DR. SANG HEON LEE GPA: 5.1

## EMPLOYMENT

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2019 TO NOW MAR	<b>Lead Software Engineer</b> at RESVU Thinclab, South Australia <ul style="list-style-type: none"><li>• Managed 3 products, FMLink, Communitilink (Version 2) and an Internal Admin Panel.</li><li>• Developed architecture for the version 2 of the Communitilink Whitelabelled System.</li><li>• Produced a Data Table library (<b>ngx-auto-table</b>), which simplified systems and increased code reuse.</li><li>• Integrate a flexible authentication system, which allows user contexts to be switched seamlessly within the application.</li><li>• Implemented a one-click deployment solution, with automated unit-testing.</li></ul>
2018 TO 2019 AUG MAR	<b>Software Engineer</b> at RESVU Thinclab, South Australia <ul style="list-style-type: none"><li>• Project Owner of the "FMLink" web application, a Facility Management tool for large companies.</li><li>• Integrated Google's <i>material.io</i> javascript library into legacy applications.</li><li>• Implemented a database schema validator for <i>Google Firestore</i>, to ensure apps work on the production database.</li><li>• Helped integrate OAuth signin and user permissions into the <i>Google Firebase</i> backend.</li><li>• Used management systems including; Bitbucket, Jira, Assana, Stride and Trello.</li></ul>

2015 JUN	TO	2018 MAY	<b>Mechanical Engineer</b> at BARGAIN STEEL CENTRE South Australia <ul style="list-style-type: none"> <li>• Design and manage the production of Sheds</li> <li>• Liasing with clients to determine business requirements</li> <li>• Responsible for CAD modelling and shop drawings</li> <li>• Procuring and ordering materials and components needed for jobs</li> <li>• Automating CAD procedures via scripting</li> <li>• Assisted in designing the website</li> </ul>
2014 DEC	TO	2015 APR	<b>Graduate Production Engineer</b> at SMART FABRICATION Kilburn, South Australia <ul style="list-style-type: none"> <li>• Control the delivery and processing of materials and equipment.</li> <li>• Ensure traceability of all material used, regarding certification and conformity.</li> <li>• Procurement of material and components from suppliers.</li> <li>• Assisting the production staff in producing quotes and estimates.</li> </ul>
2014 JUL	TO	2014 SEP	<b>Graduate Project Engineer</b> at COLD LOGIC Port Adelaide, South Australia <ul style="list-style-type: none"> <li>• Responsible for producing technical drawings including; P&amp;ID's and fabrication drawings.</li> <li>• Managed material ordering and project changes regarding drawings.</li> <li>• Increased productivity in Engineering department through efficient modelling techniques.</li> </ul>
2013 JUL	TO	2014 MAR	<b>Drafter</b> at KOVA ENGINEERING Vancouver, Canada <ul style="list-style-type: none"> <li>• Responsible for producing technical drawings including; fabrication drawings, lift plans, as built's and weld maps.</li> <li>• Managed small projects including spreader systems, for lifting operations.</li> <li>• Produced Finite Element Analysis' on static and dynamic models.</li> <li>• Developed successful responsive website for the company.</li> </ul>
2011 OCT	TO	2012 NOV	<b>Drafter</b> at SMART FABRICATION Port Adelaide, South Australia <ul style="list-style-type: none"> <li>• Responsible for creating technical drawings for fabrication.</li> <li>• Refined current product design process, setting clear design guidelines to improve quality.</li> <li>• Managed projects including pipe routing, structural frames and machinery components.</li> <li>• Worked closely with senior project managers to solve scheduling and logistical problems.</li> </ul>

## INTERESTS AND ACTIVITIES

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

## REFERENCES

Available on request