

# Alex Hixon

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## Contact

Information alex@alexhixon.com

## Education

**University of New South Wales**, Sydney Australia 2014  
BSc Computer Science

## Professional Experience

**Atlassian**, Mountain View & Sydney January 2018 - present  
*Developer*

- Built core features of our WYSIWYG web editor, used across multiple products (Jira, Confluence, Bitbucket) and platforms (web, mobile).
- Worked across the whole browser tech stack, from IME and content-editable browser bugs, dealing with React internals, and finally UI components.
- Feature leading with product teams and across geos, gathering requirements, feature rollouts across platforms, and implementing them accordingly.
- Pairing with designers to understand possible solutions and uncover technical limitations.
- Guided junior engineers in designing APIs, and ran technical training sessions.

### **Canopy**

January 2017 – July 2017

*Founder, wearable startup*

- Learnt Rhino 3D and Solidworks to go from clay mockups to real prototypes.
- Built a Rust-native toolchain and drivers to run programs on a modern ARM SOC.

**NICTA**, Sydney, Australia

March 2014 – August 2015

*Research Engineer, Software Systems Research Group*

- Helped designed a research programming language that can be used to verify that code is bug free.
- Built a performant ext2 filesystem with it, and designed stdlib APIs. This got accepted into one of the top systems research publications.
- Profiled our microkernel to understand why allocations and context switches varied across platforms, and used that information to focus future work.

**University of New South Wales**, Sydney, Australia

2013 - 2014

*Casual Academic*

- Teaching postgrad & undergrad computing classes via weekly face-to-face tutorials and labs.

**Webtide**, Sydney, Australia

July 2008 - February 2010

*Junior Java / Javascript Developer*

## Key Skills

**Strong:** Javascript, Typescript, React, HTML and CSS

**Experience with:** Docker, Python, Flask, PostgreSQL, Redis, Amazon S3, EC2 and SQS, Erlang, C, Java, IDA Pro

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Publications  
and Patents

**Cogent: verifying high-assurance file system implementations**

Amani, S., **Hixon, A.**, Chen, Z., Rizkallah, C., Chubb, P., O'Connor, L., Beeren, J, Nagashima, Y., Lim, J, Sewell, T., Tuong, J., Keller, G., Murray, T., Klein, G. and Heiser, G. *International Conference on Architectural Support for Programming Languages and Operating Systems*, pp. 175-188, Atlanta, GA, USA, April, 2016

**Graphical computer interface for an Issue tracking system**

U.S. Patent Application No. 16/920,139