

# Maxwell Bo

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## EMPLOYMENT

**Atlassian**, Sydney, Australia  
Software Developer Intern Nov 2018 – Jan 2019

**Skedulo**, Brisbane, Australia  
Software Developer Intern Jan 2017 – Present

- Full-stack development, working with purely functional Scala (Play, Finagle, Typelevel ecosystem), TypeScript (React, RxJS, GraphQL), Ruby (Cucumber), PostgreSQL + PostGIS, C# (Xamarin) & Kotlin (Android)
- Led a feature team to overhaul Skedulo's internal service administration applications, reducing burden on support and CS
- Rebuilt customer facing onboarding procedure for improved usability, involving design, frontend and backend development
- Refactored scheduling and resource tracking microservices, eliminating long-standing transient errors and performance issues

## EDUCATION

**University of Queensland**, Brisbane, Australia  
Bachelor of Science (B.S.), Computer Science Extended Major Jul 2015 – Est. Jan 2019

- 6.1/7 GPA
- Dean's Commendation for Academic Excellence, awarded for a minimum semester GPA of 6.6 Nov 2017

## VOLUNTEERING

**UQ Computing Society**, University of Queensland  
Secretary Nov 2017 – Oct 2018

- Responsible for room bookings, catering, and organising speakers for our biweekly events, including student talks, industry panels, hackathons, and social events
- Assisted with maintaining the society's custom software, including Slack bots, member management/signup tooling, and website
- Wrote and presented official UQCS educational talks

**UQ United Nations Student Association**, University of Queensland  
Model UN Officer (Executive) Feb 2018 – Oct 2018

- Served as a chairperson and technical director for internal UQUNSA Model United Nations simulations

Director - BrizMUN Apr 2017

**YOW! Lambda Jam**, Sydney, Australia  
Student Volunteer May 2018

## PROJECTS

**Muncoordinated**, *muncoordinated.io*  
Model UN committee management service Oct 2017 – Present

- Used at all internal UQUNSA Model UNs. Dramatically reduced burden on committee directors, cutting administration time by 30 minutes per day (50%). Used at all large Australian MUNs, and over 20 international MUNs. Over 200 unique users per month
- Actively maintained. Built with TypeScript, React, Firebase & Semantic UI

**neoreader**  
Screenreader for Neovim Aug 2017 – Present

- Awarded 1st place at the QUT Code Network Winter Hackathon 2017
- Supports infix operator identification for Haskell, as well as Python 3 specific AST analysis for more intelligible reading
- Used by at least 2 vision impaired developers. Actively maintained
- Preparing to support Scala AST analysis by assisting the Scala Center accessible-scala initiative. Contributed initial proof-of-concept, scala-verbal-descriptions

## SKILLS

**Programming Languages**

Experienced	Python, Scala, Haskell, TypeScript
Learning	Erlang, Prolog, Idris, Kotlin, C#
Encountered	Elm, Rust, Java, C, Ruby, PostgreSQL, C++

**Tools, Libraries & Concepts**

Experienced	Git, React, Play, Finagle, Scala Typelevel ecosystem, formal logic
Familiar	L <sup>A</sup> T <sub>E</sub> X, Unix, Rx(JS / Monix), GraphQL, PostGIS, Cucumber, Selenium, Gurobi, Xamarin compilers, formal methods, discrete mathematics, algorithms & data structures

## INTERESTS

Functional programming, FRP, compilers, dependent typing, formal methods, concurrency, UI/UX  
Regular attendee of monthly Brisbane Functional Programming Group (BFPG) meetups  
Attendee of PyCon AU 2018 and YOW! Lambda Jam 2018 conferences

## ACHIEVEMENTS

**Best Design Award** UQ Computing Society Hackathon Aug 2018  
**3rd Place** Microsoft College Code Competition Mar 2018  
**1st Place** QUT Code Network Winter Hackathon Aug 2017  
**Runner-up Best Delegate** Asia-Pacific Model United Nations Competition Jun 2015  
**Silver Award** The Duke of Edinburgh's International Award 2013

## CERTIFICATIONS

**Grade 8 Classical Guitar** Trinity College 2014

## REFERENCES

References available upon request