

# Maxwell Bo

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## EMPLOYMENT

### Atlassian, Sydney, Australia

#### Intern Software Developer

Nov 2018 – Present

- Working with purely functional Scala (Akka, Scalaz) and TypeScript (React, Redux) in the Atlassian Account team, to build a robust login and signup flow with Auth0
- Tasked with training new starters and secondments in purely functional programming techniques, through pairing and demos
- Led an effort to convert over 30KLOC of untyped and Flow typed JavaScript to TypeScript, discovering and fixing a multitude of defects
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### Skedulo, Brisbane, Australia

#### Intern Software Engineer

Jan 2017 – Nov 2018

- Engaged in full-stack development, primarily 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. Jun 2019

- 5.9/7 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 for the society's 400+ members
- 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 50 international MUNs. Over 500 unique users per month
- Actively maintained. Built with TypeScript, React, Firebase & Semantic UI

## SKILLS

### Programming Languages

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

### Tools, Libraries & Concepts

Experienced Git, React, Play, Finagle, Scala Typelevel ecosystem, formal logic  
Familiar Akka,  $\LaTeX$ , 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 FP-Syd and SydJS meetups. Former attendee of 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

2014

## CERTIFICATIONS

### Grade 8 Classical Guitar Trinity College

2014

## REFERENCES

References available upon request