

# Maxwell Bo

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## EMPLOYMENT

**Google**, Sydney, Australia

Software Engineer

Jan 2020 – Present

- Working with Java (*Android*) in the Google Photos department

**Atlassian**, Sydney, Australia

Intern Software Engineer (Full-time)

Nov 2018 – Dec 2019

- Worked with purely functional Scala (*Akka*, *Scalaz*) and TypeScript (*React*, *Redux*) in the Atlassian Account team, to build a login and signup flow that is stable, easy to use, and integrate with
- Tasked with training new starters and secondments in pure FP techniques, through pairing and lectures
- Led an effort to overhaul our JavaScript development loop, converting over 20KLOC of untyped and Flow typed JavaScript to TypeScript, while discovering and fixing a multitude of defects, integrating Sentry error reporting into our monitoring and bug triage pipelines, and writing a Bamboo plugin to bump library versions and raise PRs in downstream dependants
- Contributed to an effort to develop an SLA for the entire authentication flow, as part of the Atlassian Cloud Premium initiative

**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, C# (*Xamarin*) & Kotlin (*Android*), to develop a mobile workforce management platform
- 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 – Jul 2019

- 6.0/7 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

## 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 Rust, Erlang, Kotlin  
Encountered Java, C, C++, C#, Ruby, PostgreSQL, Elm

**Tools, Libraries & Concepts**

Experienced Functional programming, React, Play, Finagle, Scala Typelevel ecosystem, Scalaz, formal logic  
Familiar Akka,  $\LaTeX$ , Unix, RxJS / Monix, GraphQL, Cucumber, Selenium, Cypress, Xamarin, Git, compilers, formal methods, discrete mathematics, algorithms & data structures

## INTERESTS

Functional programming, FRP, compilers, dependent typing, 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