

# Maxwell Bo

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## EMPLOYMENT

### 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, PostgreSQL + PostGIS
- 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. Jul 2019

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

### Anglican Church Grammar School, Brisbane, Australia

- Full Colours for Academics, Special Recommendation Colours for Debating, House Captaincy 2014
- QCAA Certificate of Academic Commendation for Very High Achievement in at least 24 semesters of Authority subjects 2014

## VOLUNTEERING

### UQ Computing Society, University of Queensland

#### Secretary

Nov 2017 – Present

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

### UQ United Nations Student Association, University of Queensland

#### Model UN Officer (Executive)

Feb 2018 – Present

- Serves as a chairperson and technical director for internal UQUNSA Model United Nations simulations
- Served as a technical adviser and contributor to the Asia-Pacific Model United Nations Competition 2016 Brisbane Bid

#### Director - BrizMUN

Apr 2017

## PROJECTS

### 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
- Written in Python. 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

### Muncoordinated

#### Model UN committee management service

Jun 2016 – Present

- TypeScript, React, Firebase, Semantic UI
- Used at all internal UQUNSA Model UNs. Used at external MUNs, SydMUN 2017 and VicMUN 2018, managing over 200 delegates. Actively maintained

## SKILLS

### Programming Languages

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

### Tools, Libraries & Concepts

- Experienced Git, React, Play, Finagle, Scala Typelevel ecosystem (Cats, http4s, doobie, Monix, Shapeless, circe, Scalameta, refined, Monocle)
- Familiar  $\LaTeX$ , Unix, Rx(JS / Monix), GraphQL, PostGIS, Cucumber, Selenium, formal logic, compilers, formal methods, discrete mathematics, algorithms & data structures, agile

## INTERESTS

Compilers, functional programming, dependent typing, theorem provers, UI/UX

Regular attendee of monthly Brisbane Functional Programming Group (BFPG) meetups

## ACHIEVEMENTS

**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