

# 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), Python, PostgreSQL + PostGIS
- Led a feature team to overhaul Skedulo's internal service administration applications
- Rebuilt Skedulo's customer facing onboarding procedure, involving design, frontend and backend development

## EDUCATION

**University of Queensland**, Brisbane, Australia

Bachelor of Science (B.S.) in Computer Science Extended Major

Jul 2015 – Est. Q2 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 – 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

**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

BrizMUN - Director

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. Currently preparing to support Scala AST analysis, delegating to scala-verbal-descriptions

**Muncoordinated 2**

Model UN committee management SPA

2016 – Present

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

## SKILLS

**Programming Languages**

*Experienced:* Python, Scala, Haskell, TypeScript, Kotlin, PostgreSQL

*Learning:* Erlang, Prolog

*Encountered:* Elm, Rust, Java, C

**Tools, Libraries & Concepts**

*Experienced:* Git, React, Play, Finagle, Scala Typelevel ecosystem  
(Cats, http4s, doobie, Monix, Shapeless, circe, Scalapeta, refined, Monocle)

*Familiar:* Unix, discrete mathematics, algorithms & data structures, compilers, formal methods, formal logic  
L<sup>A</sup>T<sub>E</sub>X, agile, Rx(JS / Monix), GraphQL, PostGIS

## 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