

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, C# (Xamarin)
- 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

VOLUNTEERING

YOW! Lambda Jam, Sydney, Australia

Student Volunteer

May 2018

- Granted the opportunity to watch and participate in the conference's numerous lectures and workshops regarding applied functional programming, while not involved with organisational matters

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, C# |

Tools, Libraries & Concepts

- | | |
|-------------|---------------------------------------------------------------------------------------------|
| Experienced | Git, React, Play, Finagle, Scala Typelevel ecosystem |
| Familiar | LaTeX, Unix, Rx(JS / Monix), GraphQL, PostGIS, Cucumber, Selenium, Gurobi, Xamarin |
| | formal logic, compilers, formal methods, discrete mathematics, algorithms & data structures |

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