

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 pure FP techniques, through pairing and demos
- Led an effort to overhaul our JavaScript development loop, converting over 30KLOC 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

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), 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 – 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 Rust, Erlang, Prolog, Idris, Kotlin
Encountered Elm, 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