Ruoh Pin (Robin) Chew

Software Engineer
Perth
me@robin.com.au
Australian Citizen

Find my most up-to-date resume at robin.com.au.

And my public code at https://github.com/robinchew.

Experience

I've been programming for more than 10 years professionally, developing mostly in Erlang, Python and JavaScript. I've been heavily influenced by functional programming languages such as Clojure. Whichever programming language I use nowadays, I write more "value-oriented" (as described by Rich Hickey https://youtu.be/-6BsiVyC1kM) with immutable data and composable functions, rather than object-oriented code.

Technology Stack

Frontend

- Javascript + Mithril/React

Backend

- Python + Flask/Django
- Erlang + Cowboy
- Clojure
- ClojureScript

Familiar Languages

- Elixir + Phoenix
- Kotlin
- Swift
- Dart + Flutter
- PHP + Laravel

Less familiar but can get work done

- C#/.NET Core
- Java
- Go

General Skills

- Arch Linux, Ubuntu, Debian, Red Hat, Slackware
- Vim, Android Studio, Xcode

- PostgreSQL, MySQL, MSSQL, SQLite
- Git, Github, Gitlab, Bitbucket
- Bash Scripting
- HTML/CSS
- Photoshop
- Docker, LXC, Buildah, VirtualBox/Vagrant, VMWare
- AWS services: EC2, S3, Lambda, DynamoDB, Elastic Beanstalk, etc.

Talks/Workshops

- Teaching Python and Javascript to aspiring developers
  - [Social Coding](#) every week at Hillview Intercultural Community Centre
  - https://www.meetup.com/pythonwa/events/290315903/
- Co-organiser of the monthly Python meetup (2016-2022) http://pythonwa.com
  - Talked about how not to use Django
    - https://www.meetup.com/Perth-Django-Users-Group/events/237759934/
  - Introduce Single Page Applications using [Mithril](#) instead of React.
    - https://www.meetup.com/Perth-Django-Users-Group/events/241878300/
    - https://www.meetup.com/Perth-Django-Users-Group/events/240861484/
- As guest programming workshop presenter for Perth Machine Learning Group [pmlg.org](#)
  - Kick out Meetup spam bots automatically with Python
    - https://www.meetup.com/Perth-Machine-Learning-Group/events/kppfhryzpbsb/

Work as Senior Software Engineer

CADLINK (Contract)
October 2024
Program ESP32 to periodically send data from sensors to Azure.

- Micropython
- Erlang/AtomVM
- JavaScript
- Azure Blobs

Orexplore Technologies (Contract)
https://www.orexplore.com
July 2023 - June 2024
Automate data processing for data scientists and geologists. Build web UI for rock scanners.

- Python/Flask/Django
- JavaScript/WebSocket/Mithril/React
- Oracle/APEX
- Data Workflow: Prefect
- Container: Buildah/Podman

Dinner Twist (Contract)
https://www.dinnertwist.com.au/
June 2022 - October 2023
Semi-automatic food picking system to direct workers pack in a timely manner and eliminate human errors.

- Erlang

- Reactive Programming with JavaScript, Mithril and Flyd
- WebSockets

International Salon Supplies (Contract)
https://www.internationalsalonsupplies.com.au/
June 2022 - October 2022
Assemble a software team to do e-commerce integration for a salon supply company.

- Python
- Wordpress/Woocommerce/PHP
- Erlang

Private Client (Contract)
September 2021 - February 2022
Assemble a software team to develop a platform for a startup that connects NDIS service providers and support workers.

- Python/Flask
- Reactive Programming with JavaScript, Mithril and Flyd
- PostgreSQL + PL/pgSQL
- Dart/Flutter (iOS & Android)

Woodside (Contract)
https://www.woodside.com
June 2021 - July 2021
Software consulting for Woodside through a recruiter.

- Python
- Excel

nForm (Contract)
https://nform.com.au/
March 2021 - June 2021
Software development agency.

- Python
- JavaScript/Plotly
- HTML
- PostgreSQL

Harlsan (Contract)
https://www.harlsan.com.au/
April 2021
Software consulting about Python + Tableau integration and staff training on Git.

- Python
- Git
- Tableau

Rio Tinto (Full-Time)
https://www.riotinto.com/
February 2020 - December 2020

All Rentals (Contract)
https://allrentals.com.au/

2019
Django application that lists properties for sale/rental.

Three Springs Technology (Contract)
https://threespringstechnology.com/
2019
Develop devops infrastructure for AI product for medical imaging.

- Python/Flask
- DICOM
- Docker

TyreConnect (Contract)
https://tyreconnect.com.au/
2019
Elixir Development

UFO Star Station (Contract)
https://maps.app.goo.gl/PeQjvwFxsC63wf1L9
2019
Develop an offline KDS (Kitchen Display System) web application for displaying orders for restaurant kitchens pushed from Square POS.

- UI (Javascript/Mithril)
- API Server (Erlang/Cowboy)
- SQL (No ORM)
- Integration with EFTPOS terminals (C#, .NET Core)

Spring Tech (now called CorePlan) (Part-Time)
https://www.coreplan.io/
2018
Design and build web applications to analyse and visualise data of mining operations.

- Python/Django
- JavaScript/Mithril
- MSSQL

Megatix (Contract)
https://megatix.com.au/
2018
Develop on the event ticketing site under the team lead.

- PHP/Laravel
- JavaScript/Vue
- PostgreSQL

Teacher Search (Contract)
2017
A short-lived startup that connects schools and relief teachers.

- Web Frontend: JavaScript
- iOS: Swift
- Android: Kotlin
- Backend: Python

Ciao Bella Nail Salon (Contract)

https://www.facebook.com/SNSnailsCanningVale/

2016

This beauty salon has 2 branches and staff are expected to move between those branches with clients who are willing to move between branches to access the service in high demand. The business owner uses OBSI's web application with a timetable interface in order to create and occasionally move client/staff bookings between branches in order to satisfy demand.

- API Server (Python/Django)
- UI (Clojurescript/Reagent, Javascript/React)
- Custom CI server (Go)
- Amazon Web Services

Lightcube Designs (Contract)

https://bia.lighting/

2015

A custom quoting system with floor plan drawing integration saves the business owner time to create both quotes and floor plans simultaneously on the same web application with guaranteed synchronised quote data that matches the drawings. This saves the headache of using 2 separate applications for quoting and floor plan design, and manually keeping them in sync for every client with ever-changing requirements.

- API Server (Python/Django)
- UI (Javascript/jQuery/Canvas)
- Amazon Web Services

SignIQ (now called Last Yard) (Full-Time)

https://www.signiq.com

2014 - 2016

SignIQ is a leading Retail Ticketing company with customers across Australia and New Zealand. Senior Software Developer responsible for developing web applications in Python, Django, JavaScript and React.

Harmonic New Media (Full-Time)

http://harmonic.com.au/

2012 - 2013

A Perth based New Media company, responsible for building sports-tipping and e-commerce web applications used in large scale by large clients.

References

CADLINK

Reference: Mark Kaye
Position: Director
Contact:

Orexplore Technologies

Reference: Thomas Drage
Position: Engineering Manager
Contact: https://www.linkedin.com/in/thomas-drage/

Dinner Twist

Reference: Chris Tistrand
Position: Director

Contact: +61 8 6102 2727

nForm

Reference: Mike Hawryluk
Position: Director
Contact: https://nform.com.au/contact/

UFO Star Station

Reference: Tony Valent
Position: Owner
Contact: Number given on request

Spring Tech (now called CorePlan)

Reference: Alex Goulios
Position: Director
Contact: +61 8 6365 4488

Megatix

Reference: Matt Harley
Position: Lead Web Developer
Contact: https://www.linkedin.com/in/mattharley/

Ciao Bella Nail Salon

Reference: Alfred Filser
Position: Owner
Contact: +61 4 01662042

Lightcube Designs

Reference: Daniel Lee
Position: Design Manager
Contact: +61 8 64545899

SignIQ (now called Last Yard)

Reference: Chris Stoyles
Position: CTO
Contact: +61 8 6230 2475

Harmonic New Media

Reference: Craig Harman
Position: Director
Contact: 9227 0003