

Ruoh Pin (Robin) Chew

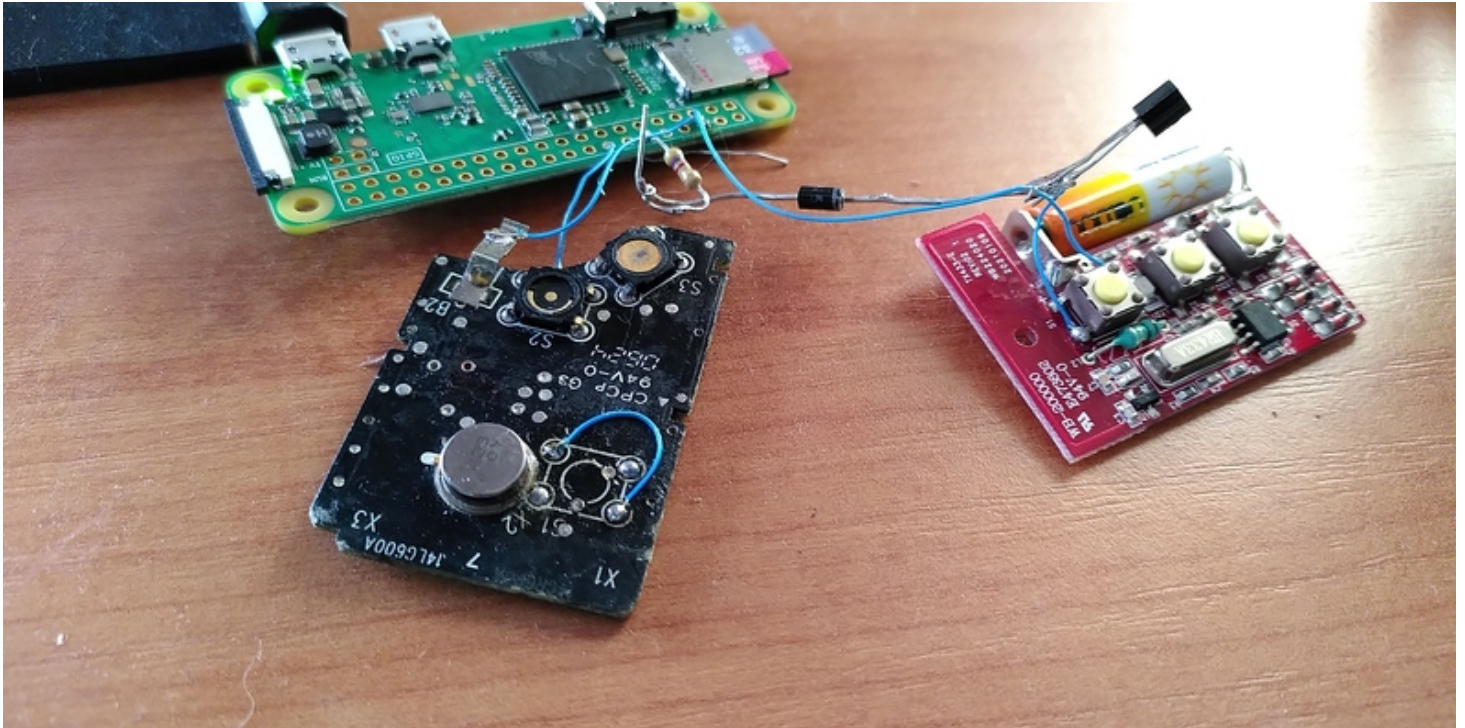
Software Engineer
Perth

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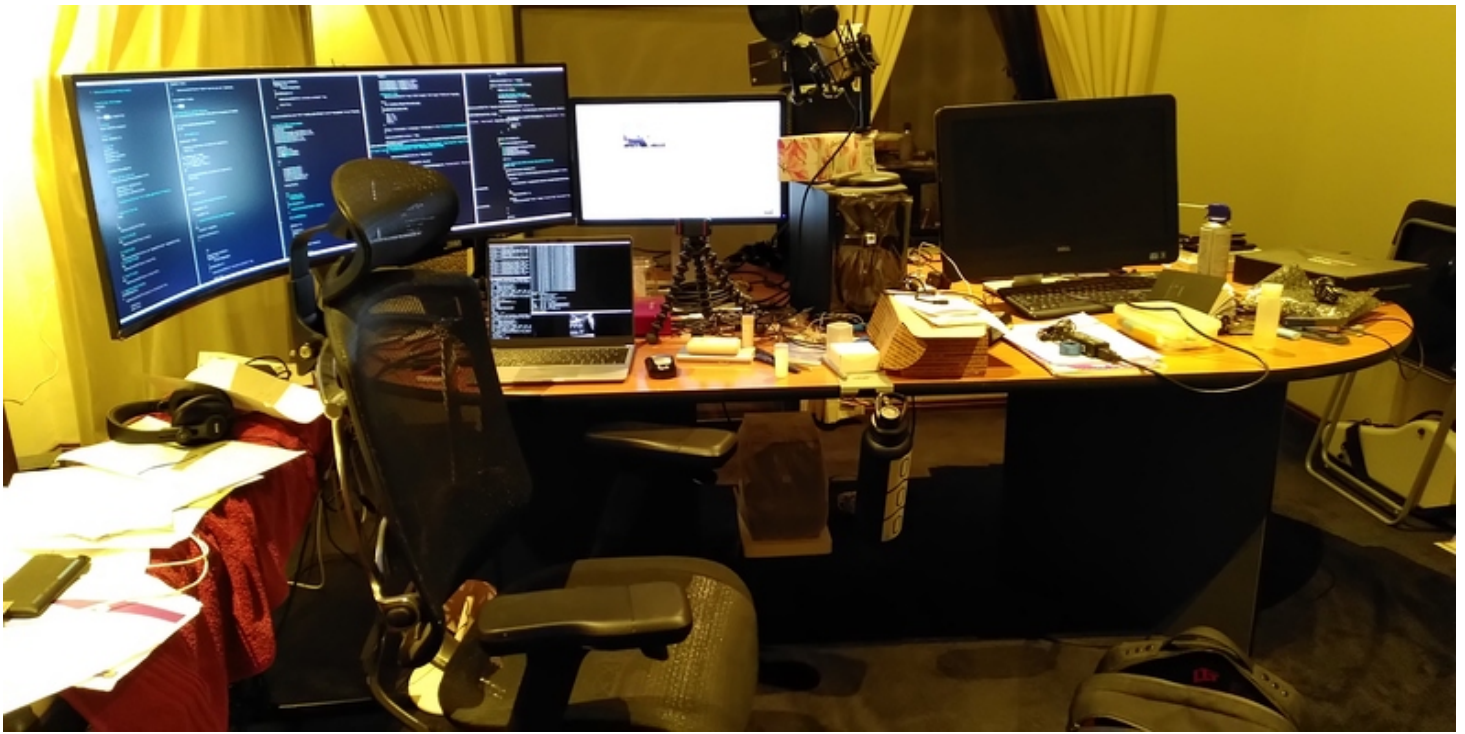
Australian Citizen

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

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



▲ Gate and garage remotes controlled by Raspberry Pi Zero



▲ Home Office

Experience as a Software Engineer

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/Podman, VirtualBox/Vagrant, VMWare
- AWS services: EC2, S3, Lambda, DynamoDB, Elastic Beanstalk, etc.

Talks/Workshops

- Teaching Python and Javascript to aspiring developers [Social Coding](https://www.meetup.com/pythonwa/events/290315903/) 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/>

Past Work

CADLINK (Contract)

October 2024

Program ESP32 to periodically send data from sensors to Azure.

- Micropython
- Erlang/AtomVM
- JavaScript
- Azure Blobs

Orexlore Technologies (Contract)

<https://www.orexlore.com>

July 2023 - June 2024

Automate data processing (ETL) for data scientists and geologists. Build web UI for loading data into X-ray rock scanners. Last thing the X-ray machine were used for detecting gold from drill holes.

- 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

Built a semi-automatic food picking system consisting of about 20 tablets that direct workers to pack food items 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

Software development contract for Rio Tinto through a recruiter. Built Python/Flask web application for launching long-running background process.

- Python/Flask/Django
- JavaScript/Plotly
- PostgreSQL/SQLite
- Git
- Vagrant
- Jenkins
- Jira

All Rentals (Contract)

<https://allrentals.com.au/>

2019

Django application that lists properties for sale/rental.

- Python/Django
- Stripe
- Rex Real Estate API integration

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. I was part of the team to build from scratch a new web version of their desktop ticketing application.

- Python/Django
- Javascript/jQuery/React
- Amazon Web Services
- Ansible

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:

Orexplere 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 Goulis

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