Robin Chew

Software Engineer
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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](http://mithril.js.org)/React

Backend

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

Familiar Languages

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

Less familiar but can get work done

- C#/.NET Core
- Java
- G

General Skills

- Arch Linux, Ubuntu, Debian, Red Hat
- Vim, Android Studio, Xcode
- PostgreSQL, MySQL, MSSQL, SQLite
- Git with Github, Gitlab, Bitbucket

- Bash Scripting
- HTML/CSS
- Photoshop
- LXC, Docker, VirtualBox/Vagrant, VMWare, etc.
- 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/

Contract Work

2023

- Continued work for Dinner Twist to analyse packing data.
- Automate data processing for data scientists and geologists. Build web UI for rock scanners. For [Orexplore](#).

2022

- Got sick of programming and became a barista to run a cafe for a month. I don't even drink coffee.
- Built a development team to do e-commerce integration for a salon supply company. (Python, Wordpress/Woocommerce/PHP, Erlang)
- Social chat programme (Python, Erlang, JavaScript/WebSocket, PostgreSQL)
- Semi-automatic food picking system to reduce worker pack time and eliminate human errors for https://www.dinnertwist.com.au (Erlang, JavaScript/WebSocket)

2021

Qouted Work

- Built a development team to develop a platform for a business that connects service providers and staff. (Python, JavaScript, PostgreSQL, Dart + Flutter)

Part-Time Only Contract

- Software consulting for Woodside through a recruiter. (Python)
- Software development for NFORM https://nform.com.au/ (Python, JavaScript, HTML)
- Software consulting and staff training for Harlsan https://www.harlsan.com.au/ (Git, Python, Tableau integration)

2020

- Full-time Software development contract for Rio Tinto through a recruiter. (Python, JavaScript, Vagrant, Jenkins, ...)

2019

- Django development for a property rental and sales site
- Python development and devops (Docker) for https://threespringstechnology.com that uses AI for medical imaging
- Elixir development for https://tyreconnect.com.au
- Sub-contracted Kotlin development for sailing-related mobile app
- After hours assistant teaching Scratch for ICTLabs in Riverlands Montessori School

2018

- Did a short contract work with Megatix. (Laravel, Vue)

Projects developed under my OBSI business

OBSI is a software consultancy company that I've started, and below are the list of projects that I've completed for clients. See some screenshots at http://obsi.com.au or else I am able to demonstrate these applications on request.

2019 - POS/KDS (Point of Sale/Kitchen Display System)

Offline web application for displaying orders for restaurant kitchens pushed from POS.
Technology Stack:

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

2017 - Teacher Search

A short-lived startup that connects schools and teachers.
Technology Stack:

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

2016 - Ciao Bella Nail Salon

Owner: Alfred Filser (0401662042)
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.
Technology Stack:

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

2015 - Lightcube Designs

Owner: Daniel Lee (0430537003)
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.
Technology Stack:

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

Past Employment

2023 - 2024

Orexplore
Position: Software Engineer
Reference: Thomas Drage (Engineering Manager) (drage@iinet.net.au)
Phone number on request
https://www.linkedin.com/in/thomas-drage/

2018 a few months: Spring Tech (now called CorePlan)

https://springtech.io
Position: Senior Software Developer
Reference: Alex Goulios (Director)
Design and build web applications with Python and JavaScript/Mithril to analyse and visualise data of mining operations stored in MSSQL database.

2014 - 2016: SignIQ (now called Last Yard)

https://www.signiq.com
Position: Senior Software Developer
Reference: Chris Stoyles (CTO) (6230 2475)
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.

2012 - 2013: Harmonic New Media

http://harmonic.com.au
Position: Senior Software Developer
Reference: Craig Harman (Director) (9227 0003)
A Perth based New Media company, responsible for building sports-tipping and e-commerce web applications used in large scale by large clients.