Fiona McCawley

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EXPERIENCE

CipherStash — *Software Engineer*

Mar 2022 - Nov 2024

Cyber security startup building queryable encryption and key management software.

Tech used: Ruby, Elixir, Rust, Go, Typescript (React), GraphQL (Apollo), PostgreSQL.

Assignar — *Software Engineer*

Mar 2021 - Mar 2022

Compliance, asset & workforce management software, for construction contractors.

Tech used: Python, Typescript(React), GraphQL (Apollo), PostgreSQL.

Alembic — *Software Developer*

Mar 2020 - Dec 2020

Software consultancy in Sydney.

Tech used: Elixir, Typescript (Node, React), GraphQL (Apollo client and server), PostgreSQL.

Expert360 — *Software Developer*

Aug 2017 - Mar 2020

Marketplace that connects consultants to companies from start-ups to leading organisations.

Tech used: Elixir, GraphQL (Relay), React, Elasticsearch.

Macquarie Group, Sydney — *IT Support Analyst*

Oct 2010 - Dec 2016

Macquarie Group, Sydney — *Audio Visual Technician*

Feb 2008 - Oct 2010

IHG, Sydney — *Audio Visual Technician*

Jan 2006 - Feb 2008

TALKS

Encrypted Search Party.
Ruby Conf Australia, Feb 2023 YouTube | GitHub

Sensors, Beers and Nerves.
Elixir Australia, Feb 2021 YouTube | GitHub

Event Sourcing with Commanded.
Elixir Australia, May 2020 YouTube | GitHub

Is Inclusion Enough?
Panel discussion @ Canva, July 2019, YouTube

Intro to Elixir
DDD Sydney, August 2018, YouTube

EXAMPLES OF SOME WORK AND PR's

GoEql – Package to serialize/deserialize data to integrate a Go/Xorm app with CipherStash.

Encrypt Query Language – Abstractions for transmitting, storing, and interacting with encrypted data and indexes in PostgreSQL.

Toy ORE Library – Ruby gem built to get an understanding of how Order Revealing Encryption (ORE) works.

ProtectRB (deprecated) – Ruby gem that provides searchable encryption for ActiveRecord models.

ActiveStash (deprecated) – Ruby gem that creates an external encrypted index for ActiveRecord models.

EDUCATION

General Assembly, Sydney — *Web Development Immersive*

Mar 2017 - Jul 2017

SAE Institute, Sydney — *Advanced Diploma, Audio Engineering*

Feb 2004 - Dec 2006