

I want to know the secrets of the universe. I am pursuing truth wherever it leads.

## Career

---

### Senior Fullstack Engineer

Raven Telemetry

July 2022 - January 2023

Ottawa, Canada

Augmented legacy systems in Python/Django and Javascript/React

Wrote Elixir/Phoenix/LiveView to support new platform

### Software Engineer

Catalyx

August 2021 - June 2022

Vancouver, Canada

Everything to do with running a crypto exchange proxy

Worked on feature requests, bug fixes, etc.

All work done in Elixir

### Software Engineer

Conversational

December 2020 - June 2021

Utrecht, Netherlands

Implemented chat service for Avaya chat application

Worked on feature requests, bug fixes, etc.

All work done in Elixir

### Software Engineer

Gamgee BV

April 2019 - November 2020

Amsterdam, Netherlands

Replaced existing backend based on Ruby/RabbitMQ/EventMachine with one written in Elixir

Worked on 'Gamgee' app using React Native

Extensive testing of routers/backend/app

### Web / Mobile Developer

Appsquire Consulting

November 2017 - June 2018

Edmonton, Alberta

Built 'The Starlite Room' app using React Native

Built Ross' Gold point of sale iPad app using iOS/Swift with LAMP backend

### Web / Mobile Developer (Contractor)

Kwiksol Corporation

August - October 2015, April 2017 - December 2018

Edmonton, Alberta

Ported existing SaaS website to mobile site using PHP, jQuery, AJAX and Bootstrap

Built cross platform app (Android, iOS) using React Native and Nodejs that utilizes existing database and syncs with existing live site

## **C# Web Developer** (Contractor)

Real Foods Ltd.

December 2013-July 2014

Edinburgh, Scotland

Developed email content management system using ASP.NET for automated customer service and online orders through the company's e-commerce website

Developed image optimization task in C# and GraphicsMagick to scale and crop images for company website content to reduce server load

Developed web scraping scripts in Python with BeautifulSoup to scrape competitors' websites for price and product data

## **Early Career**

Technical Site Supervisor - A-Frame Energy Efficient Homes, Ireland, 2006 - 2007

Company Owner and Builder - Custom Home Builder, Canada, 2002 - 2006

Oil Rig Crew - Precision Drilling, Canada, 1999 - 2001

## **Education**

### **Post Grad Certificate in Evolution of Language and Cognition**

University of Edinburgh

September 2018-December 2018

Edinburgh, Scotland, UK

### **MSc in Artificial Intelligence (Incomplete)**

University of Edinburgh

September 2013-August 2014

Edinburgh, Scotland, UK

### **BSc in Computing** (2.1)

Dundalk Institute of Technology

September 2009-April 2013

Dundalk, Ireland

*Thesis:* Benchmarking Servers: Java, Erlang, Tomcat and Yaws

### **Object Oriented System Analysis and Design Certificate**

Southern Alberta Institute of Technology

September 1998-April 1999

Calgary, Canada

## **References**

---

Dr. Christian Horn

Head of Computing Department, Dundalk Institute of Technology, Ireland

Email: [chorn@acm.org](mailto:chorn@acm.org)

Dr. Matt Spike

Lecturer, Centre for Language Evolution, University of Edinburgh

Email: [mspike@exseed.ed.ac.uk](mailto:mspike@exseed.ed.ac.uk)

Vincent Wansink

President, Kwiksol Corporation

Email: [vincentwansink@outlook.com](mailto:vincentwansink@outlook.com)

# Computer Languages and Skills

---

**Programming Languages:** Elixir, Erlang, JavaScript, PHP, Java, C#, Python

**Web Languages:** HTML, CSS, XML, JSON, JavaScript, jQuery, JSX (React)

**Databases:** Oracle SQL, MySQL, Postgres

**Operating Systems:** Windows, Linux, OSX

**Artificial Intelligence:** Advanced Natural Language Processing, Advanced Vision, Reinforcement Learning

**Systems Design:** System Specifications and Design, Distributed Systems, Test Driven Development, White Box Testing, Black Box Testing

**Testing, Automation and Debugging:** ExUnit, Mocha, JUnit, Spring, Ant, Gulp, Benchmarking

**Mobile:** Android, iOS, React Native

**Etc:** Web crawlers, Web scrapers, Load testing, Git

## Work Samples

---

**Github:** /GenericJam

**Elixir code example:** <https://github.com/GenericJam/websocket-client>

## What Else?

---

I am a Canadian and Irish citizen living in Calgary for the past two years or so. Before that I was in Amsterdam, before that, Edinburgh. There are more 'before that's if you're interested.

My favourite colour alternates between purple and red but I wear mostly black.

I despise golf shirts and blue pens. Pens should be black.

My favourite thing about Elixir is that it allows me to think 'higher thoughts' as coined by Bret Victor.