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# GARRY SHARP *software engineer*

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## PROFILE

I am a software engineer with 10 years of experience in the field. I have worked for companies all over the globe and have a proven track record of working remotely as both an employee and a contractor. I have mentored and guided junior developers and love getting involved in complex and challenging projects

## SKILLS

**Golang**, **Javascript** and **Python** are my main programming languages but I have tinkered with various others like **Java**, **C#** and **Haskell**. I use each of them for different things depending on requirements. For writing CLIs or REST APIs I tend to reach for golang, for interacting with them I usually go for python as it's faster and usually the context is that of a 1 time data migration.

For databases I typically go relational with **MariaDB** or **MySQL** but also have experience with NoSQL DBs like **Mongo**, **Redis** and **Cassandra**. 9 times out of 10 for me the extra time developing a relational schema is worth it. If the application I'm writing is in golang or javascript then I'll often interface with them using an ORM.

For scalability, message brokering and general infrastructure I use a plethora of tools, some of which I'm more versed in than others, including **Docker**, **Docker Compose**, **Nginx**, **Redis**, **RabbitMQ**, **Kafka**, **Kubernetes** and **CI/CD pipes**. I'm a big believer in strong unit testing and aim always for a *minimum* of 80% coverage. If a solution is big enough I'll usually use the above with the **AWS** counterparts for deployments.

For project planning I'm a certified **Scrum Master** and have also operated as a technical product owner.

I have experience writing blockchain related code and writing trading bots. I can write **Solidity** contracts and I'm very comfortable in writing secure and robust code off chain (building transactions etc), for instance arbitrage and mean reversion bots. My knowledge of **cryptography** is also quite good.

For front end development I know **Vue.js** and **React** and a handful of others like **Django**

## EXPERIENCE

### **Catena, Remote** – CEO and Co-founder

catena-consulting.com

SEP 2022 – PRESENT

- Catena was co-founded by myself and two former colleagues who are industry experts. We realized that our unique experience of managing large sums of money and extensive knowledge of cryptocurrencies placed us in a unique position to offer advice externally.
- We pride ourselves on offering absolute 1st class advice to people needing it and not offering generic “one size fits all” solutions unless they legitimately fit. We believe in making crypto accessible for all and want to be honest actors in this space.

## **Kraken, Remote** – *Lead Software Engineer - Funding/Business Solutions*

AUG 2022 – MAR 2023

- Implemented from the ground up a solution that allowed the company to pay third parties in Ethereum and Bitcoin. This included everything from the UI to SSO to algorithmically implementing exchange periods to actually transacting the crypto securely.
- Aided and assisted in onboarding new engineers, explaining the solutions we have to them, and educating them on crypto conventions.
- Designed a crypto signatory that could be reused internally for high throughput transactions. This is probably the piece of work I'm most proud of as it offered an elegant implementation of Shamir's Secret Sharing algorithm.
- Implemented our internal integration tool for moving transaction data around between various platforms.

## **Kraken, Remote** – *Technical Analyst/Software Engineer - Investment Fund*

AUG 2018 – AUG 2022

- In my first role with the company I was the main technical resource working within the prop desk. The role was quite diverse in nature.
- One of my main roles, however, was writing algorithmic trading bots, mainly market makers and arbitrage bots, but sometimes other types of bots (bots that profited off of uniswap slippage or bots that called boom/bust on the original MakerDAO contract to buy debt from liquidated CDP positions)
- My other main role was reviewing white papers and speaking to other developers for projects we were thinking of investing in. I would build a "dossier" that I would send to other team members with what I considered the tech risk was. This could contain things from their development strategy (disorganized SCRUM implementation) to things like bad math.

## **Various, UK/Luxembourg** – *ServiceNow Developer/Consultant*

2013 – 2018

- Straight out of Uni I worked for various companies developing ServiceNow implementations for clients.
- Whilst not technically too demanding I got to strengthen my people skills and learnt how to listen to requirements properly and interface between development teams and customers.
- I also learnt ITIL and SDLC subprocesses to a very high standard, specializing in Change Management.

## **EDUCATION**

### **University of Glasgow** – *BSc Computer Science (Hons)*

2008 – 2013

## **OTHER**

I am a dual British and Luxembourgish national that is currently living in Dubai. I speak English and Spanish fluently and have worked in French too. In my spare time I play guitar as much as I can and follow crypto markets.