

EDUCATION

- **University of Greenwich** London, UK
BSc Computer Science and Video Games Development; 1st Degree w/ Hons *Sept. 2010 – Sept. 2013*

EXPERIENCE

- **Corcel** Remote
Senior Software Engineer *Nov 2023 - Dec 2024 - 1 year, 1 month*
 - **corcel.io:** Worked with an international team to deliver backend systems to integrate blockchain-based LLMs on bittensor to provide multimodal generative AI as a service.
 - * Complete overhaul of corcel.io's API (Python/FastAPI, Postgres, Redis, GCloud, Github Actions, K8s, Helm)
 - * Designed and built nineteen.ai's API (Python/FastAPI, Postgres, Redis)
 - * Designed and built taostats.io's API (Rust/Axum, Postgres, K8s, Helm)
 - * Built corcel's platform monitoring, observability, and alerting stack (OTEL, Prometheus, Tempo, Loki, Promtail, Grafana, Uptime Kuma)
- **Jove** Remote
CTO *Jul 2021 - Sep 2023 - 2 years, 4 months*
 - **Jove API (Python, Rust, GCP, RabbitMQ, K8s):** Jove is an insurtech company to provide flexible and dynamic bundled insurances for the self-employed and small business owners.
- **Qadre** London, UK
CTO *May 2017 - May 2019 - 2 years*
 - **Plug (Python, libsodium, Distributed Networking, Blockchain):** Headed engineering at Qadre providing architectural oversight of Qadre's technologies including their flagship product, Plug. Plug is an application framework designed to reduce the friction of building Blockchain enabled applications by providing the necessary cryptographic primitives and abstractions to allow developers to build applications without worrying about the underlying technologies.
- **Credits** London, UK
Senior Software Engineer *Aug 2015 - Jul 2017 - 2 years*
 - **Credits Framework (Python, ED25519, ZMQ):** The Credits Blockchain is a disruptive technology platform that uses strong cryptography and a distributed messaging protocol to create a shared trusted ledger between trading counter-parties. Credits is a hybrid platform that facilitates interoperability between private and public chains.
- **Saffron Digital** London, UK
Software Engineer *Feb 2014 - Oct 2015 - 1 year, 9 months*
 - **Backend Services (Python, Flask, Django, Nginx, Docker):** Development of Saffron's multi-tenanted platform. Interface's with other Saffron technologies to deliver client specific sites and multimedia to Web Browsers and Smart TVs.
- **Flypay** London, UK
Software Developer *Aug 2013 - Jan 2014 - 6 months*
 - **Flypay Services (Python, Flask, RESTful Services):** Worked on Flypay's core mobile libraries consisting of reusable, theme-able widgets and core business logic. Developed the payment gateway for Burrito Mama to Flypay's mobile clients with 3rd party payment providers, kitchen management systems and databases.
- **Guided Knowledge** London, UK
Software Developer *May 2013 - Jul 2013 - 3 months*
 - **Rowing Coach Prototype (Android, Java, Gradle, Bluetooth Stack, Yost AHRS):** Development of a sports App for Android. This uses the device's internal sensor alongside an external sensor created by Yost Engineering. Data is recorded from the two sensors and can be checked for patterns using Empirical Mode Decomposition and HHT analysis to spot mistakes in an athletes rowing. This data is then passed through a proprietary AI to deduce the root cause of the mistake and offer advice on how to combat it.

- **Zero Games** London, UK
Software Developer *Oct 2011 - Mar 2013 - 1 year, 6 months*
 - **Social Worker Simulation (Unity Engine, Blender3D, C#):** Development of a 3D simulation to aid social workers in gaining skills in the environment. The simulation is designed to replace role-play or hired actors in training social workers how to react to different stimuli within a home environment. The simulation changes the outcome of the scenario based on user input and responses based on questions posted throughout the simulation.
- **Univeristy of Greenwich / Airbus** London, UK
Software Developer *Jun 2012 - Sep 2012 - 4 months*
 - **A380 Presentation (Unity Engine, Blender3D, C#):** Developed a 3D, interactive environment to display news and information about the University of Greenwich Safety Engineering Group's pioneering work in partnership with Airbus to improve the fire suppression and evacuation systems on the Airbus A380.