

# REI JARRAM

FOUNDER, FULL STACK DEVELOPER & TECH LEAD



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## PROFILE

I build teams and scale codebases. At Shakepay I regularly ship code reaching 80,000+ daily active users touching multiple product lines across the entire tech stack (backend, infra, mobile, web-app & internal systems) on a financial system that processes over \$1 billion in volume per year. My work has resulted in thousands of hours labour-time saved, tens of thousands of dollars saved through bug fixes, and hundreds of millions of dollars of new volume processed through the rollout of entirely new product lines.

## WORK EXPERIENCE

### Cofounder & Head Of Technology @ Ideosphere

2024 December - Present

- Developing the first prediction market platform in web3 that funds scientific research through trading activity. Currently building an MVP on Base-chain using re-fashioned Gnosis CTF and LMSR-AMM smart contracts for market structure and liquidity provisioning.

### Cash Squad Tech Lead @ Shakepay

2025 January - Present

#### Achievements

- Reinforced the technical robustness of Shakepay's e-transfer cash-in system which processes more than \$1.1 billion per year. I reduced banking provider session authentication creation time from 30 seconds to less than 1 second. I also built fallback systems that process more than \$10 million per year.
- Optimized e-transfer cashout systems which process more than \$700 million volume per year. I performed mass data migrations to reduce latency on a core endpoint from 2 seconds to 200 milliseconds. I also automated self-cancellation flows saving customer support representatives over 260 hours work per month.
- Architected an online refund channel for the card program that introduced an additional \$2.2 million transactional volume per year.

#### Day-to-day

- Collaborate with engineering and product managers to set firm milestones for sprints and split up work across teams to maximize productivity. Lead by example and daily ship code to over 80,000 daily active users across multiple product lines and business domains including cash, risk and internal systems.
- Lead technical initiatives to improve developer experience by writing RFCs to introduce clearer design patterns and domain models, leading decomposition projects, and advocating for better test coverage on the backend and mobile-app.
- Lead technical interviews (over 50 to-date) and on-board new devs (10 to-date) and also provide technical mentorship for new devs through 1:1s and code reviews.

### Senior Developer @ Shakepay

2023 June - 2025 January

- Transformed business processes by introducing AI into the tech stack. In an internal hackathon I used open-source language models to generate fraud reports that reduced unit cost by 50% whilst respecting data privacy concerns. This

automation saves over 1,200 hours of fraud analyst work per year. It also sparked the wider adoption of AI throughout the organization.

- Architected and implemented the Direct Deposits backend with Payments Canada and handled all aspects of implementation including direct connectivity testing, transaction processing, QA and fraud prevention. More than \$70 million of customer salaries are processed by direct deposits each year; the system has received no downtime to-date.
- Led the migration of internal tooling from a Vue.js app to the low code platform Retool to maximize up developer productivity.

#### **Full Stack Developer @ Shakepay**

2021 September - 2023 June

- Architected and implemented the Wire cash-outs system which processes over \$95 million of funds per year.
- Fixed a broken data model by backfilling over 440,000 records and then automated payout processes (~2,309 new records per month) that continue to save up to 277 hours of labour-time per month
- Architected and implemented an unsupported ERC-20 token system on Fireblocks that has processed more than ~315,000 USDC to date.

#### **Full Stack Developer @ Yap.cx**

2019 June - 2021 September

- Architected and implemented core product offerings such as a BTC Pay server, a compliance engine to enforce Fintrac / AML specifications, and a risk management system to strategically price currencies based on internal balances and competitor exchange data.
- Set sprint milestones, compiled technical documentation, led code reviews and managed server deployments & database backups.

#### **Teacher @ Le Wagon Coding Bootcamp**

2019 April - 2021 February

- Delivered lectures on Ruby on Rails and Data Science and acted as technical lead for student final projects.

### **HACKATHONS**

#### **1st Place Radix Global Hackathon**

2024 March

- Geochain is a dApp that utilizes NFTs to manage payments based on GPS stream data from Apple air tags.

#### **Best UX, Best Public Good & Best Built On UMA at ETH Global Hackathon**

2023 September

- Swirl is a dApp that utilizes ERC-6551 in novel way to facilitate P2P funding mechanisms for decentralized science.

### **EDUCATION**

#### **Diploma - Full Stack Web Development @ Le Wagon Coding Bootcamp**

2019 January

- Specialized in Ruby on Rails, React, and Data Science.

#### **M.A. Distinction (Valedictorian) - Political Economy @ The University Of York**

2015 September - 2016 October

- Wrote my dissertation on predictive models of intra-state conflict that yielded new policy insights predicated on the correlation between refugee camp location and conflict escalation.