

Liam Zebedee E-P.

FULL-STACK ENGINEER · BLOCKCHAIN ENGINEER

✉ liam@liamz.co | 🏠 liamz.co | 📷 liamzebedee | 🌐 liamzebedee | 📺 liamedwards-playne

Education

University of Technology Sydney

B.IT. IN COMPUTER SCIENCE AND INFORMATION SYSTEMS

Sydney

Jan. 2014 - Dec. 2017

- Selective co-operative scholarship program in partnership with industry sponsors.
- Studied computer science (networking fundamentals, image processing, neural networks, data structures and algorithms) and business analysis.
- Graduated with Distinction average

Queensland Academy of Science, Mathematics and Technology

INTERNATIONAL BACCALAUREATE

Brisbane

Jan. 2012 - Dec. 2014

- IB 38. Studied English, Mathematics, French B2, Business, Psychology, Computer Science.

Skills

Frontend TypeScript, Yarn (workspaces), React, Redux, Webpack, Docker, Mocha and Chai, Electron, Puppeteer

Knowledge TCP/IP stack, browser bots/automation, image processing / conv. neural nets, compilers/AST's

Backend Node.js, Go, C#, Django + REST Framework, Rails, Flask, Meteor, Nginx (load-balancing), SQL

Blockchain Ethereum, Solidity, cryptoeconomics, Geth, ERC20/721, Remix, Truffle, Web3.js, EVM internals
solc-compiler, abi-gen, smart contract testing, patterns (oracles, registries)

Software engineering Git, TDD (unit/integration/e2e), functional JS, OO programming, microservices

Cloud deployment (Azure, AWS), *NIX administration

Website development WordPress, PHP, CSS3, SASS, Cloudflare, DNS management

UX Prototyping at varying fidelities (sketching, wireframes, mockup) using Sketch, InVision, Marvel
user testing and interviewing, design thinking process

Languages English (Native), French (B1 - Fluent), Dutch (A1)

Experience

BlockLab NL

SR. BLOCKCHAIN/FULL-STACK ENGINEER

Rotterdam, The Netherlands

August 2018 - December 2018

- Contracted to BlockLabNL for blockchain/full-stack field project, working in a team of 4 developers.
- Led architecture design and integration of 8 different softwares, including smart contracts, API's, configuration management, and frontend. Responsible for monorepo package architecture, smart contract build tooling, test-driven development.
- Integrated the 0x Protocol into our platform, built a 0x relayer, developed team understanding of 0x's ontology and integration of our business logic.
- Developed creative solutions to unsolved problems in the space, including integrating 256 bit number logic at the database layer. Devised Solidity development patterns, based on analysing codebases of other major projects such as Augur and 0x. Later contributed these learnings, in the form of a popular repo, awesome-solidity-patterns
- Mentored other colleagues on smart contract development/debugging and blockchain fundamentals.

PVRTNER

CO-FOUNDER

Sydney, Australia

July 2017 - November 2017

- Co-founded a startup to address the friction of VR setup and teardown.
- Performed user research and testing in collaboration with industrial design co-founder.

Vivant Digital

UX DESIGNER INTERN

Sydney, Australia

January 2017 - July 2017

- Vivant is a human-centred digital innovation agency that did in-house innovation for major institutional clients such as Paypal and CBA. The company consists primarily of product managers, UX researchers and technologists to engage their client from concept to functional product.
- I assisted with the Barangaroo project as a UX Designer intern. I assisted in user interviews, research, prototyping in various fidelities (sketching, wireframes, mockup) using various tools (Sketch, InVision, Marvel).

Cuberider

Sydney, Australia

FULL-STACK DEVELOPER

July 2016 - December 2016

- Cuberider is an education startup which teaches kids about science through programming experiments that run on the International Space Station. Using their custom-designed Raspberry Pi's with an array of sensors, children engage in learning science through writing their own experiments to collect data.
- I was contracted for building the initial prototype of the learning platform to serve all schools in Australia. Building this learning platform involved:
- a content management system and editor (TinyMCE), custom editing modules for inserting quizzes (WebComponents), a web IDE for developing and running the experiments in an environment that mimics the Raspberry Pi (Go, Docker), frontend/backend and deployment (Azure)
- I was responsible for prototyping and building these items for the majority of my time, consulting with Microsoft Azure representatives, and later worked in a team with another junior developer.

Veredictum

Sydney, Australia

CO-FOUNDER, BLOCKCHAIN/FULL-STACK ENGINEER

December 2015 - July 2016

- Veredictum is a startup that seeks to solve piracy by watermarking content and registering the ownership to the blockchain. Their first product was a film script registration service which used the Bitcoin blockchain.
- I was involved as the founding software developer. I developed prototypes of user experience for fingerprinting images using an app (Ionic, Meteor) and a video fingerprinting algorithm (C, FFMpeg). I was responsible for building the film script registration product using Meteor.js, which included a custom-built Bitcoin notarisation microservice (Node).

WiseTech Global

Sydney, Australia

SOFTWARE DEVELOPER INTERN

May 2015 - Dec 2015

- WiseTech Global develops the leading enterprise logistics software worldwide, CargoWise One. As a software development company, over 500 engineers work on its many features including forwarding, customs clearance, warehousing, land and transport, as well as the core platform.
- All developers go through the defensive programming induction bootcamp (DPIB), which teaches the practices that have enabled the company to scale its software in the face of business complexity - agile processes, coding conventions, unit testing, defensive programming, code contract -based programming.
- I worked initially in writing SQL, and then engaged in issue investigation and debugging, writing unit tests and features in C# as necessary steps in graduating from DPIB.

Community

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|------|--|-----------|
| 2018 | The Blockchain Tiramisu, Tech Stacks and Pragmatic Engineering: deep dive into blockchain engineering practices (talk) , Vierde Vrijdag | Den Haag |
| 2018 | Hackathon co-organiser , GENR8 Hackathon - blockchain hackathon | Amsterdam |
| 2018 | Merkle Trees and JS Bundles (talk) , tbd hackathon | Amsterdam |
| 2015 | Metric: Building a quantitative self app in Meteor and React (blog) , Hit HN frontpage | Sydney |
| 2013 | The invention of the blockchain (article) , 5k+ reads, 60+ reccs. | Brisbane |

Projects and open-source

Retrust

RESEARCH

2018-present

- Designing and building a decentralised reputation protocol, that is sybil-resistant.
- Research into Evidence-Based Subjective Logic, PageRank and eigenvectors.

Open-source

DEVELOPER AND CONTRIBUTOR

2010-present

- Published open-source software used by others:
 - Metric (50+ ★)
 - jekyll-ii8n (2.5k+ 📄)
 - TiledMapPlus - integrated into Slick2D game engine when I was 15.
- 5,000k+ reputation on StackOverflow