Emilien Breton

EXPERIENCE

@ Hack the Hill

DEVELOPMENT COORDINATOR — DEVELOPMENT TEAM

University of Ottawa • November 2022 - Present

- Contributed in developing open-source participant tracker built with Next.js and Prisma, used by over 1000 hackers and 50 organizers throughout hackathon
- · Collaborated with infrastructure and sponsorship teams to build and maintain internal sponsor payment portal powered by Stripe and React.js

Zeptile Software

SOFTWARE ENGINEER - WEB3

Remote from Ottawa • October 2022 - Present

· Working on small-scale project and getting up to speed with various technologies such as Web3 programming in Solidity and testing using Chai and Hardhat

@ uOttawa CS Club

CLUB EXECUTIVE

University of Ottawa • June 2022 — Present

- · Collaborated with both other executives to brainstorm, organize and schedule a dozen events by giving talks and organizing workshops for over 100 students
- · Designed internal Notion workspace, improving short-term planning by providing single central platform to capture meeting minutes and track task progress

PROJECTS

@ Personal Website

A PORTFOLIO FOR SHARING VARIOUS PROJECTS

JavaScript • HTML • CSS • Markdown • Next. js

- Designed and implemented appealing UI and optimized UX using Google Search Console resulting in over 5000 unique visitors a month
- · Leveraged Cloudflare caching system and optimized site-wide accessibility resulting in Lighthouse score consistently over 95%

Atto-8 Microcomputer

A MINIMALIST 8-BIT MICROCOMPUTER WITH STACK-BASED MICROPROCESSOR

Rust · Assembly

- Implemented $\, \Omega \,$ optimizing assembler, $\, \Omega \,$ elementary disassembler and $\, \Omega \,$ instruction-level emulator in Rust for O custom stack-based architecture
- Proved instruction set Turing complete through \mathbf{O} implementation of Conway's Game of Life from scratch in Assembly
- · Working on building microcomputer physically using 74HC-series logic chips and 3D-printed parts

@ DBLess Password Manager

A HASH-BASED, DATABASE-LESS PASSWORD MANAGER

Python · JavaScript · HTML · CSS · Next.js

- Devised O custom cryptographic procedure based on SHA-256 to deterministically generate passwords on demand without requiring encryption or password storage
- Built @ cross-platform PWA with Next is that loads 2FA tokens, generates passwords and copies them to user's clipboard for convenience

Legacy Protocol

SUBMISSION FOR DEFITHE CONVENTIONAL 2022

March 2022 · JavaScript · React · Rust

- · Won first place in Finance category of Canada's largest DeFi hackathon along with 2500\$ prize as part of 3-member team
- Built **?** MVP smart contract backend and API from scratch in Rust with no prior experience in Web3, all within tight 36-hour timeframe
- · Worked in collaboration with Terraform Labs post-hackathon to officialize our protocol and secure additional funding prior to Terra Luna collapse

More on O GitHub and in O Portfolio

EDUCATION

University of Ottawa

BSC WITH HONOURS IN COMPUTER SCIENCE Admission scholarship – 95%+ average Dropped out after first year November 2020

Interests

Electronics · @ Robotics · 3D

CONTACT

Ottawa, Ontario

613-913-9909

■ mail@emilien.ca

https://emilien.ca/

O github/ Bricktech2000

■ linkedin/in/ emilien-breton

SKILLS

Programming Languages

Python • JavaScript • Rust • C++

Development Tools

Linux • Neovim • Git • GitHub • Docker

Frameworks

React · Node.js · Next.js · Express.js

Other Technologies

HTML · CSS · JSON · YAML · Markdown · LaTeX · C · Assembly · Raspberry Pi · Arduino • VS Code • Figma • Notion • Cloudflare

OTHER

Languages

 French Native Native English Intermediate Spanish Russian Elementary

Printing • Mathematics • @ Drone Building • Finance & Investing • @ Productivity • Music

♠ BRICKTECH2000/RESUME