

## **Introduction**

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This is the HTML form of my resume. There is a pdf form of my resume as well, if that's what you want.  
I'm excited to hear from you!

# Preston Pan

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## CONTACT

- **Email:** [ret2pop@gmail.com](mailto:ret2pop@gmail.com)
- **Location:** Vancouver, BC, Canada
- **LinkedIn:** <https://www.linkedin.com/in/preston-pan-7aa364333>
- **GitHub:** <https://github.com/ret2pop>

## SKILLS

- **Programming:** Python, Solidity, Rust, C, x86-64 Assembly, Shell
- **DevOps:** Docker, Kubernetes, NixOS, declarative configurations
- **Blockchain:** Aptos Move, FunC, Solidity
- **Tools:** Git, Docker, NixOS, LATEX, cmake/make, Linux
- **Radio:** Amateur radio (licensed); analog/digital radio tech

## EXPERIENCE

### Software Engineer - LayerZero Labs

- Shipped production-ready smart contract code as part of a world-class blockchain engineering team.
- Discovered and fixed critical vulnerabilities in TON and Aptos blockchain code, preventing potential losses of millions.
- One of the world's few engineers proficient in FunC and TVM assembly, contributing to LayerZeros multi-chain infrastructure.
- Developed SDKs for Aptos blockchain RPC interaction, streamlining smart contract deployment and transaction execution.
- Analyzed Aptos contract package linking, identifying a scaling limitation that triggered a major contract redesign.

## PROJECTS

### Stem

- Designed a stack-based programming language, written entirely in C.
- Reached #1 on HackerNews; led to an offer at LayerZero.

### Cognition

- Engineered a stack-based programming language featuring advanced metaprogramming capabilities.
- Another blog post that reached #1 on HackerNews

### NoExcess

- Developed a Lisp-like programming language with scoping, written in C.

### Server/Website

- Maintains a website/server with a blog and mindmap runs a webring ([nullring.xyz](https://nullring.xyz)).

### Snake3

- Created a threaded, multiplayer snake game in C.
- Available at <https://git.aberrantflux.xyz/snake3.git>

## INTERESTS

- Cryptography, decentralized governance, Economic systems
- low-level programming, compiler design
- Declarative and functional programming

### Let's Connect

I'm open to opportunities in low level programming, blockchain, and cryptography. Feel free to reach out via email or LinkedIn!