Resume – Preston Pan

CONTACT

- **Email:** ret2pop@gmail.com
- **Location:** Vancouver, BC, Canada
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- **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).

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!