

# Kent Worcester

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## CONTACT

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## SUMMARY

Full-stack software engineer specializing in blockchain and systems programming. Builds efficient, low-overhead applications across DeFi, confidential computing, and constrained execution environments including WebAssembly and secure enclaves. Interested in technically challenging work involving low-level engineering, resource optimization, and novel platforms.

## SKILLS

**Languages:** Rust, TypeScript, Dart, Python, Bash, C  
**Web & UI:** Leptos, Axum, React, Next.js, Svelte, Node.js, Flask, Flutter, HTML/CSS, Tailwind  
**Blockchain:** Cosmos, Ethereum, Bitcoin, Solana, Web3  
**Confidential Computing:** SGX (Intel), SEV (AMD), AWS Nitro Enclaves, Confidential Containers  
**DevOps:** Docker, Kubernetes, GitHub Actions, Terraform, AWS, Azure, Linux, cloud-init, systemd  
**Other:** gRPC, Protobuf, REST APIs, FFI, Virtualization (KVM, libvirt, QEMU)

## EXPERIENCE

**Valiant** 2025–Present

- Developing the smart contract for a DEX on Fogo, a high-performance Solana SVM chain, using the Anchor framework.
- Building backend services and the web frontend for the exchange interface.

**CypherStack** 2025

- Contributed to the implementation of Silent Payments (BIP-352) in a client-side wallet context.
- Developed a Flutter plugin for high-performance Bitcoin blockchain scanning using Rust FFI.
- Designed a Dart library for Silent Payment address generation, sending and receiving.

**Fortress Labs** 2022–2024

- Implemented a secure message relay bridging public and private blockchains.
- Deployed applications inside Intel SGX enclaves using Fortanix CCM.
- Built an encrypted information management system inside AWS Nitro Enclaves using Anjuna.
- Designed secure data backup and recovery solutions for AWS Nitro Enclaves and AMD SEV.

**Shade Protocol** 2023–2024

- Audited the ShadeX money market protocol for security and correctness.
- Built core components of a Liquidity Book-style decentralized exchange on Secret Network.
- Continued development independently as a solo project after the team paused work.

## PROJECTS

**Liquidity Book**

- Designed and developed a DEX inspired by [Joe V2: Liquidity Book](#), focused on capital-efficient, concentrated liquidity. Implemented dynamic fees and flexible liquidity provisioning, allowing traders to target specific price ranges for improved depth and reduced slippage.

**Secret Rust**

- Author and maintain open-source Rust crates for Secret Network, a privacy-focused chain.
- `secretrs / secret-sdk-proto`: Protobuf types and client interfaces for Secret, including encryption utilities for secure enclave communications.
- `rsecret`: A specialized gRPC client for Secret that simplifies integration and improves ergonomics over raw tonic clients.
- `keplr-sys`: Raw bindings to the Keplr Wallet API for use with 'wasm-bindgen', enabling browser wallet interactions from Rust WASM applications.

## EDUCATION

**B.S. in Mechanical Engineering**

2008 - 2012