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# PROFESSIONAL PROFILE

Smart contract engineer with professional experience developing Solana programs in Rust using the Anchor framework. Demonstrated ability to design secure, stateful on-chain applications with strict validation, authorization controls, and time-based business logic. Strong grounding in Rust's ownership model and safe state management in constrained execution environments.

# TECHNICAL COMPETENCIES

**Programming Languages**

- Rust (advanced practical usage)

**Blockchain & Smart Contract Development**

- Solana runtime
- Anchor framework
- Token minting and vesting mechanisms
- On-chain state modeling and validation
- Access control and authorization patterns

**Rust & Systems Concepts**

- Ownership and borrowing
- Practical lifetime management
- Error handling and invariant enforcement
- Serialization and structured data handling

**Development Tools**

- Git
- Linux command-line tools

- Solana CLI

## SELECTED PROJECTS

Token Vesting Program — Solana (Rust / Anchor)

- Designed and implemented a Solana smart contract to manage time-based token vesting schedules.
- Enforced authorization rules to ensure only permitted entities could trigger state transitions.
- Modeled program accounts using strongly typed Rust structures to prevent invalid states.
- Applied defensive programming techniques to ensure correctness and safety under all execution paths.

Token Minting Program — Solana (Rust / Anchor)

- Implemented a token issuance program with strict supply constraints and permission checks.
- Developed validation logic to prevent unauthorized minting or invalid state mutation.
- Ensured predictable and secure behavior within Solana’s execution model.

## PROFESSIONAL EXPERIENCE

**Independent Smart Contract Developer**

- Developed and tested multiple Solana programs using Rust and Anchor.
- Focused on secure contract design, correctness, and maintainable state models.

CERTIFICATION

Cyfrin Updraft – Rust Fundamentals