JOSHUA MOSKOFF

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https://github.com/Rezlang · https://rezlang.github.io/portfolioReact/

EXPERIENCE

FactSet   New York, New York
Software Engineering Intern (Dealmakers and Wealth)   May 2024 - Sep 2024

- Development of a scalable and stable-bandwidth solution for real-time data conflation, subscription, and updates. Built to process all FactSet real-time and delayed updates from stock exchanges, using Elixir, Erlang, and AWS.
- Created a composable Elixir WebSocket subprotocol, consolidating setup into a reusable component for current and future WebSocket implementations.
- Developed a single-page frontend dashboard to view subscription traffic using React.

RPI Center for Research toward Advancing Financial Technologies   Troy, New York
Research Assistant   September 2024 - Current

- Developed an LLM to automatically convert over-the-counter derivative contracts into Solidity smart contracts.
- Created a smart contract representation of ISDA master agreement for OTC derivatives.
- Developed a Solidity-based oracle for real-time SEC filing data on the Ethereum blockchain.

NTopology   New York, New York
Software Engineering Intern (Platform Experience Team)   May 2022 - September 2022

- Developed a C++ autocomplete oracle, matching on arbitrary or ranked fields.
- Created custom search, sort, and filter feature for visual function blocks.
- Used technologies including modern C++, Qt, CMake, Jenkins, and Jira.

TwoMarshmallows   Toronto, Canada (Remote)
Software Engineering Intern   June 2022 - September 2022

- Added timestamps to chat protocol and designed a last value cache for message previews.
- Designed a message prioritization feature.
- Developed NLP and LLM features for language learning and translation.

PROJECTS (SEE GITHUB)

Proof of Vision Token *Solidity, Python, FastAPI*
A dividend-paying security on the Ethereum chain mined by performing useful work (i.e., classifying images).

Street Sign Detector *Python, Pytorch, Numpy, OpenCV, YOLO*
Creation of a street sign detecting model with over 93% mAP@50, fine-tuned from YOLOv9 architecture

AI Phone Calling Assistant *Python, React Native, OpenAI (TTS, Whisper & ChatGPT)*
An OpenAI-powered smart assistant capable of scheduling appointments over the phone.

Personal Website *React, TypeScript, HTML, CSS* (https://rezlang.github.io/portfolioReact/)
A responsive website hosting a visual version of this resume with project demos.

SmartMail Email Summarizer *JavaScript, OpenAI, Google OAuth & Gmail*
A lightweight Chrome extension that summarizes and responds to Gmail messages using the ChatGPT API

EDUCATION

Rensselaer Polytechnic Institute   Troy, NY
BS Computer Science, Minor Economics *GPA: 3.4*   Expected Graduation: Summer 2025
AI & Blockchain, Computational Vision, Distributed Systems, Network Programming, Parallel Computing, Cloud Computing, Quantum Computing Systems

Clubs: President of Interfraternity Council, President of Phi Sigma Kappa, President of Society of Physics Students

SKILLS

Languages:	C, C++, Python, Swift, Rust, Java, Go, TypeScript, JavaScript, Elixir, Erlang, Haskell
Frameworks:	React, Flutter, Qt, Phoenix, Node.js, Pytorch
Tools:	Git, Github, Jira, Jenkins, AWS, SQL, npm, asdf