

# JOSHUA MOSKOFF

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## EXPERIENCE

### FactSet

Software Engineering Intern (*Dealmakers and Wealth*)

New York, New York  
May 2024 - September 2024

- Development of a scalable and self-healing solution for data conflation, subscription, and updates. Built to process all FactSet real-time and delayed-time updates from stock exchanges, using elixir, erlang, and AWS.
- Creation of a composable elixir websocket subprotocol, replaced over 150 lines of subprotocol setup in every implementation of an elixir websocket (dozens of projects)
- Creation of one page frontend dashboard to view subscription traffic using React

### NTopology

Software Engineering Intern (*Platform Experience Team*)

New York, New York  
May 2022 - September 2022

- Development of C++ auto complete oracle, matching on arbitrary or ranked fields.
- Created custom search, sort, and filter feature for visual function blocks.
- Use of technologies including modern C++, QT, CMake, Jenkins, and Jira.

### TwoMarshmallows

Software Engineering Intern

Toronto, Canada (Remote)  
June 2022 - September 2022

- Added time stamps to chat protocol and designed last value cache for message previews.
- Designed message prioritization feature.
- Natural Language Processing and LLM development for language learning features and translation.

### RPI SCOREC research

Undergraduate research assistant

Troy, New York  
September 2022 - Current

- Implemented C++ backend to evaluate and manipulate Bezier mesh objects.
- Designed frontend to display mesh objects and interact with C++ interface made with Qt.

## PROJECTS (SEE GITHUB)

### Proof of Vision Token Solidity, Python, FastAPI

A dividend paying security on the Ethereum chain mined by performing useful work (ie classifying images).

### Street Sign Detector Python, Pytorch, Numpy, OpenCV, YOLO

Creation of a street sign detecting model with over 93% mAP50, fine-tuned from YOLOv9 architecture

### AI Phone calling assistant Python, React Native, OpenAI (TTS, Whisper & ChatGPT)

An OpenAI powered smart assistant that is capable of scheduling appointments over the phone.

### Personal Website React, TypeScript, HTML, CSS

A responsive website hosting a visual version of this resume with project demos.

### SmartMail Email Summarizer JavaScript, OpenAI, Google Auth & Gmail

A lightweight Chrome extension that summarizes and responds to Gmail messages using the ChatGPT API

## EDUCATION

### Rensselaer Polytechnic Institute

BS Computer Science, Minor Economics GPA: 3.6

Troy, NY  
Expected Graduation: Summer 2025

AI & Blockchain, Computational Vision, Natural Language Processing, Network Programming, Parallel Computing

**Clubs:** President of Interfraternity Council, President of Phi Sigma Kappa, President of Society of Physics Students, President of Rensselaer Greek and Roman

## SKILLS

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