

Leo Stepanewk

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EDUCATION

Princeton University

Bachelor of Science in Engineering, Computer Science | Cumulative GPA: 3.86

Aug 2021 — Present

Princeton, NJ

- Minors: Finance, Statistics & Machine Learning
- Activities: TigerApps, Club Field Hockey, Blockchain Club, Princeton Ukrainian Club
- Classes: Vector Databases, Intro to DeFi, Intro to Machine Learning, Algorithms & Data Structures, Programming Systems, Venture Capital, Microeconomics, High Tech Entrepreneurship

SKILLS

Languages

Python, Javascript/HTML/CSS, Swift, C, SQL, Solidity

Frameworks & Libraries

PyTorch, NumPy, Scikit-Learn, React.js, Express.js, Node.js, SwiftUI, Flask

Tools

Git, Linux, MongoDB, Google Cloud (Firebase, Functions), MySQL, Supabase, Figma

EXPERIENCE

Tech Lead & iOS Developer

Boreas, Princeton eLab Startup Accelerator

Apr 2023 — Sep 2023

Princeton, NJ

- Launched an iOS app and cloud platform to interface with a wearable air monitoring device for construction workers; led a cross-functional team of five to deliver the MVP in 8 weeks.
- Used CoreBluetooth and CoreLocation to collect live measurements from four hazardous gas sensors, displayed results on SwiftUI charts, and uploaded to Supabase for analysis on a React dashboard.
- Conducted 20 user interviews to assess market demand; initiated a beta test with volunteer construction workers from Whiting-Turner; ensured compliance with regulations and stakeholder requirements; presented to investors and received \$25k in grants from the Keller Center and NSF.

Machine Learning Intern

Coinfeeds

Feb 2023 — Apr 2023

Las Vegas, NV

- Developed a PCA model with Scikit-Learn to evaluate the significance of crypto social sentiment among 100 features from on-chain and off-chain sources; used by 4,000 traders every month
- Generated document embeddings in PyTorch for a database of 850 crypto company profiles to help analysts and investors find emerging projects with natural language queries.

Teaching Assistant

Princeton Computer Science Dept.

Jan 2023 — May 2023

Princeton, NJ

- Led weekly office hours for 500 students in systems programming and data structures & algorithms.

Software Engineering Intern

TrueToForm

May 2022 — Jul 2022

Chicago, IL

- Developed 11 new body measurement algorithms to automate apparel fitting by calculating paths along 3D body meshes and deployed on Google Cloud; brought all measurement calculations in-house, eliminating reliance on external service and reducing costs by 90%
- Updated the React dashboard with new measurements, CSV file exporting, and created tiered account plans in Firebase; enabled the company to enter open beta and acquire 500+ paying users.

Independent Research Student

NYU Tandon School of Engineering

Jun 2019 — Aug 2021

Brooklyn, NY

- Built simulation and data collection pipelines for deep learning models, accelerating model architecture iteration by 50% and enabling the team to achieve state-of-the-art performance.

PROJECTS

Today @ Princeton - <https://github.com/riiptide/Today>

Nov 2022 — Present

- Built a Chrome extension that replaces the browser new tab page with widgets that aggregate daily campus information; implemented data sourcing system and designed a REST API for hourly updates.
- Launched on the Chrome extension store and gained 300 daily active users, created a caching system to handle request traffic, and got acquired by The Daily Princetonian.

TigerMap - <https://github.com/leo-step/TigerMap>

Apr 2022 — Present

- Built a web app that helps students plan and discover courses; won the \$1000 “Best TigerApp” prize at HackPrinceton Spring 2022, released the app to 5,000 students
- Wrote a cron job that compiles registrar data into a traversable graph; developed algorithms for searching and merging prerequisite paths; built REST API with CAS auth; React, MongoDB

Leetcode Patterns - <https://github.com/seanprashad/leetcode-patterns>

Jul 2022 — Aug 2022

- Open-source contributor; wrote a Python script that calls Leetcode’s GraphQL API and auto-updates question metadata; added new filtering functionality on the React frontend for 300k monthly visitors