

Leo Stepanewk

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EDUCATION

Princeton University

BS in Engineering, Computer Science | Cumulative GPA: 3.86

Aug 2021 — Present

Princeton, NJ

SKILLS

Languages

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

Frameworks & Libraries

PyTorch, NumPy, Scikit-Learn, React.js, Express.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 — Present

Princeton, NJ

- Launched a Swift app and cloud platform to interface with a wearable air monitoring device for construction workers; organized beta test with Whiting-Turner, received Keller Center and NSF grants
- Used CoreBluetooth to collect live measurements from four hazardous gas sensors, displayed results on SwiftUI charts, and uploaded to Supabase for further analysis on a web dashboard

Machine Learning Intern

Coinfeeds

Feb 2023 — Apr 2023

Las Vegas, NV

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

Teaching Assistant

Princeton Computer Science Dept.

Jan 2023 — May 2023

Princeton, NJ

- Organized weekly office hours for 500 students in systems programming and data structures & algorithms; expertise in debugging C and Java, resolving issues with Linux and Git

Co-Founder & CTO

Today @ Princeton

Nov 2022 — Present

Princeton, NJ

- Built a Chrome extension that replaces the new tab page in the browser with widgets that aggregate daily campus information; released on the extension store and gained 250 daily active users
- Advertised extension to 5,000 students, organized paid promotions with campus groups, and got acquired by The Daily Princetonian, a local newspaper nonprofit.

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 get first paying customers

Independent Research Student

NYU Tandon School of Engineering

Jun 2019 — Aug 2021

Brooklyn, NY

- Worked with professor Chen Feng and a team of five graduate students to develop unsupervised deep learning models in PyTorch for robot localization and point cloud alignment
- Built simulation and data collection pipelines that accelerated model architecture iteration by 50%, enabling the team to achieve state-of-the-art performance on 3D map estimation

PROJECTS

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

April 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 6,000 students
- Wrote a cron job that compiles registrar data into a traversable graph at the start of every semester, developed algorithms for searching and merging prerequisite paths; React, Flask, MongoDB

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

Jul 2022 — Aug 2022

- Second largest contributor to a coding interview prep website; implemented a weekly cron job to automatically update question metadata for over 300k monthly visitors
- Wrote a Python script that calls Leetcode’s GraphQL API and auto-commits changes through a GitHub workflow; added new filtering functionality on the React frontend