Leo Stepanewk

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Education

Princeton University — **Aug 2021 — Present**
Bachelor of Science in Engineering, Computer Science — Princeton, NJ
- **Cumulative GPA:** 3.89

Livingston High School — **Sep 2017 — Jun 2021**
High School Diploma — Livingston, NJ

Skills

Programming	Python (NumPy, Pandas, Sklearn, PyTorch, Flask), Javascript (React, Express, Node), SQL, C, Swift
Tools	Firebase, Google Cloud, MongoDB, MySQL, Heroku, Linux, Git/GitHub, VSCode, PyCharm, Xcode
Languages	English (native/bilingual), Russian (native/bilingual), Spanish (intermediate)

Experience

Software Engineering Intern — **May 2022 — Jul 2022**
TrueToForm — Chicago, IL
- Developed 11 new body measurement algorithms to automate apparel tailoring by calculating surface lengths, girths, and critical landmarks on 3D avatar meshes; deployed on Google Cloud.
- Brought all measurement calculations in-house, eliminating previous reliance on partner company.
- Validated accuracy and results through regression testing, expert consultations, and user studies.
- Added newly-created measurements to the avatar dashboard and implemented CSV file exporting.
- Created and integrated tiered account plans to unlock different sets of measurements in Firebase.
- Enabled the company to enter open beta and acquire first paying customers.

Full-Stack Developer and Co-Director of Development — **Sep 2021 — Present**
Princeton ResInDe — Princeton, NJ
- Working with a team of three other students to develop TigerMeet, an application that allows clubs to poll availability times from its members, using React, Python, and MySQL.
- Wrote stored procedures to calculate the best meeting times based on availability intersections.
- Recruited new members and led technical workshops to introduce students to the MERN web stack.

Independent Research Student — **Jun 2019 — Aug 2021**
NYU Tandon School of Engineering — Brooklyn, NY
- Worked alongside graduate students in the AI4CE lab for robot vision and machine learning under the guidance of Professor Chen Feng.
- Contributed to projects involving unsupervised deep learning for robot localization, object tracking in video, and 3D reconstruction of building interiors from point cloud data.
- Used Python and PyTorch to develop neural network architectures, perform data collection, supervise the training and testing of models, and interpret results.

Projects

TigerMap — **April 2022 — Present**
Princeton TigerApps (https://github.com/leo-step/TigerMap) — Princeton, NJ
- Created a web application that compiles Princeton registrar data into a traversable graph that allows students to plan out future coursework and discover new classes.
- Built using a React frontend, Python middle-tier, and MongoDB database.
- Won the $1000 “Best TigerApp” prize at HackPrinceton Spring 2022.
- Working with a team of students to productionize the app and release it to the student body.

Leetcode Patterns — **Jul 2022 — Aug 2022**
Open-Source Project (https://github.com/seanprashad/leetcode-patterns) — Livingston, NJ
- Second largest contributor to a coding interview prep website receiving over 300k monthly visitors.
- Implemented a GitHub workflow to run a weekly cron job that automatically updates question metadata; executes a Python script to call Leetcode’s GraphQL API and auto-commits changes.
- Added new filtering functionality based on questions that were marked completed on the frontend.

Publications

1. Wang, E. *et al.* Defeating the Digital Divide. *SIAM Undergraduate Research Online, Volume 14* (2021).
2. Chen, V. *et al.* Random Forest Regression of Markov Chains for Accessible Music Generation. *MIT IEEE Undergraduate Research Technology Conference* (2020).