

Joshua Nouriyelian

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Education

University of Pennsylvania, School of Engineering and Applied Science

Philadelphia, PA

Candidate for Bachelor of Science in Engineering

May 2022

Major: Computer Science **Minors:** Engineering Entrepreneurship, Mathematics

Cumulative GPA: X.XX/4.00 — Dean's List 2018-19

Relevant Coursework: Data Structures and Algorithms; Software Design and Engineering; Big Data Analytics*; Linear Algebra; Operating Systems*; Engineering Project Management; Artificial Intelligence*; iOS Programming; Statistics for Data Science*

*Current Courses (Fall 2020)

Experience

Webmaster (Penn Hillel and Orthodox Community at Penn)

October 2018 – Present

- Manage community websites, listservs, and serve the technological needs of the over 300-member community
- Overhauled obsolete election system to a more reliable, maintainable, and robust system for both Hillel and internal community elections, allowing for an increased amount of votes and addressing security vulnerabilities
- Transitioned outdated website to its current iteration, enabling much desired features from community leaders

Teaching Assistant for CIS 320: Algorithms (Penn Department of Computer & Information Science)

Summer 2020, Fall 2020

- Assisted and worked directly with the professor on setting up and managing resources and website for remote class
- Taught recitation, helped students with assignments and course concepts during weekly office hours, determined rubrics for grading, created exam and homework problems, and answered student questions online

Research Assistant (Penn Infant Language Center)

Summer 2019

- Investigated an adult English language dataset through the use of f1 and f2 formant vowel measurements
- Repaired 25% of measurement errors by applying alternative analyses and regression techniques to clean the dataset
- Co-authored paper with Dr. Swingley that was presented at the Budapest CEU Conference on Cognitive Development

Course Assistant (Penn Department of Computer & Information Science)

Fall 2019

- Provided homework feedback to over 200 graduate students in Discrete Mathematics for Computer Science

Projects

A.Iroh (Side Project, Artificial Intelligence & Python)

June 2020 – Present

- Training model to generate text mimicking Uncle Iroh's advice in Avatar by using OpenAI's GPT-2

Morning Manager (Solo Project, Swift)

May 2020

- Designed iOS application for users to concurrently view their schedules and the weather using the EventKit framework
- Displayed daily weather forecast for a saved location by integrating the OpenWeatherMap API and User Defaults

Vision at Home (Team of 4, Java & JavaScript)

April 2020

- Created an Android application and website to help diagnose a user's vision without the need for an optometrist
- Built features to export test results (as PDF and image) and to view a nearby optometrist using the Google Maps API

Skills

Programming Languages: Java, Python, C, Swift, HTML/CSS, MongoDB, SQL, Matlab, R

Technologies/Frameworks: Git/Github, Node.js, Bootstrap, UIKit

Activities and Interests

Clubs & Organizations: Penn Engineering Council (Marketing Committee), Engineering Peer Advisor (Cohort Leader), Alpha Epsilon Pi Fraternity (Board Member), Penn Persian Society (VP of Finance), Penn Illusionist (President)

Other Interests: Magic/Cardistry, Consumer Technology, Bassoon, Chess, Karaoke

Foreign Languages: Persian (Farsi)