Nick Pleva

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Education

University of Vermont (UVM), Burlington, VT — Expected Graduation: May 2026
Bachelor of Computer Science — Major GPA: 3.7

- **Relevant coursework:** Website Development, Algorithm Design and Analysis, Database Systems, Cybersecurity, Intro to Artificial Intelligence, Mobile App Development, Machine Learning

Yonsei University, Seoul, South Korea — Spring Semester, 2025
Semester Study Abroad

- **Relevant coursework:** Participated in a research study by Theodore Jun Yoo on how video games can create connections with people and cultures across the globe, as well as improve language learning skills.

Technical Skills

- Python
- Java
- Git/Github
- RaspberryPi
- Project Management
- C++/C
- SQL/SQLite
- HTML/CSS/Javascript
- Visual Studio Code
- Communications

Related Projects

Restaurant Database with User Interface, University of Vermont, VT — *November 2024 - December 2024*

- Two person project coded primarily in Python and SQL, using the Pandas extension to access SQL databases
- Crafted a UI displayed in the terminal to interact and travel through the different functions
- The program functionality includes ordering food, placing reservations, as well as admin access to edit menu, etc.
- Front end is Python, with it resting on a back end running various SQL queries

Dodge Game, University of Vermont, VT - https://github.com/Nick-Pleva/Collect-And-Dodge-Game — *January 2024 - May 2024*

- Collaborative project where we created a game using C++ and a Graphics Engine that uses Open GL
- Screens are travelled through user input, where each screen is tied to enumerated values
- Gameplay is to use the arrow keys to move around the screen; Goal is to collect supplies while dodging enemies
- Created graphics that showed lives remaining as well as a safe zone for the player

Piano Teacher Program, University of Vermont, VT — *September 2023 - December 2023*

- Built a mini functional piano in a team of three using a Raspberry Pi to detect inputs when keys were pressed
- A UI was also made using HTML/CSS to select and show you how to play different simple songs
- The physical piano contained buttons for the keys, along with lights to show what keys to press
- The back end code for this project was primarily Python
- Make fully functional prototype and presented it at the UVM Computer Science Fair

Work Experience

Teacher's Assistant for CS Evening TA Hours - Burlington, VT — *August 2024 - Present*
University of Vermont

- Provide assistance to students from many of UVM's computer science classes, which use Python, Java, C++, and SQL.
- Help students if they have any questions from class and guide them to better understand the material in the courses

Counselor for Community Education - Chelmsford, MA — *August 2021 - August 2024*
Chelmsford Community Education

Afterschool Pre-k Junior Counselor — *August 2021 - June 2022*
Summer Camp Counselor - SummerFest (Elementery) — *July 2021 - August 2022*
Summer Camp Counselor - SummerQuest (Middle School) — *Summers July 2023 - August 2025*

- Assisted with teaching a pre-k class, as well as make sure they were safe while playing after learning
- Lead multiple activities at SummerFest, ranging from active games outside to different crafts and puzzles indoors
- Accompanied 40 middle schoolers on daily fieldtrips, making sure they had a fun and safe time during the trips.

Achievements & Extracurricular

Boy Scouts - Chelmsford, MA — *Fall 2015 - February 2022*
Troop 75, Chelmsford, Spirit of Adventure Council, Scouting America

- Lead countless meetings, campouts, and service projects
- Heavily involved with planning, running, and instruction activities in the troop

Eagle Scout Award & Project - Planned, fundraised, and built handicap accessible picnic tables for a local park — *May 2022*