

# Kevin Peng

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## EDUCATION

### University of Toronto

*Bachelor's of Applied Science in Engineering Science*

Expected Graduation - May 2028

*Toronto, ON*

Relevant Coursework: Data structures, Algorithms, Software engineering, Deep learning

## TECHNICAL SKILLS

**Languages:** Python, C, MATLAB, JavaScript, SQL, Bash

**Tools:** Flask, Git, Microsoft Office

**Testing and Debugging:** Manual Testing, Unit Testing, Functional Testing

**Platforms:** Windows, Mac, AlmaLinux, Ubuntu

## PROJECTS

### Name Rater | *Python, API, JSON, Data Processing, Algorithm Design* - [GitHub](#)

May 2024

- Built an application to rate names based on factors such as rarity and cultural significance, integrating external APIs for data collection.
- Designed and executed comprehensive test cases to verify the accuracy of algorithms, ensuring consistent and reliable outputs.
- Validated the final scoring algorithm through cross-comparisons with real-world name datasets, ensuring accuracy and robustness.

### Synonym Evaluator | *Python, NLP, Text Analysis, Vectorization* - [GitHub](#)

Dec 2024

- Developed a system to analyze word meanings using cosine similarity, ensuring precise semantic comparisons between words.
- Performed extensive testing of the system with a variety of text corpora, identifying and resolving edge cases to improve performance.
- Implemented logging and debugging mechanisms to track the accuracy of the testing mechanism, improving accuracy by 10%.
- Created hundreds of test cases to verify system performance and handle corner cases, ensuring high reliability and scalability.

## EXPERIENCE

### Wind Turbine Pitch Control

Sep 2024 – Present

*UTWind*

*Toronto, ON*

- Designed and implemented a pitch control system for a Nema 24 stepper motor to optimize wind turbine performance, focusing on precision and robustness.
- Conducted thorough testing and debugging of hardware systems, resolving connectivity issues with SSH and PuTTY.
- Wrote and validated testing code for Raspberry Pi GPIO on the motor rig, including breadboarding and hardware connections.

## AWARDS

### UTRAHacks Hackathon | University of Toronto

2025

- Won 1st place prize in the closed competition out of 400+ hackers.

### Faculty of Applied Science and Engineering Award | University of Toronto

2024

- Awarded scholarship of \$10,000 dollar value for academic merit.

### UTAPS Marion Choi Award | University of Toronto

2024

- Awarded bursary of \$10,000 dollar value for academic merit.

### National Biology Competition | University of Toronto

2024

- Placed 34th of over 2000 competitors (98th percentile).

### Avogadro Chemistry Exam Contest | University of Waterloo

2023

- Placed in the top 250 of over 6000 competitors in the US and Canada (96th percentile).