# Kevin Wang

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## Education

**Carnegie Mellon University**  **Pittsburgh, PA**
*Bachelor of Computer Science and Music Technology - Dean's List F21, S22*  *May 2025*

### Relevant Coursework

- Introduction to Computer Systems
- Artificial Intelligence: Representation & Problem Solving
- Great Ideas in Theoretical Computer Science
- Principles of Functional Programming

## Technical Skills

**Languages**: Python, C, Java, JavaScript, HTML5/CSS3, Rust, C++, C#, PHP, SQL, R, SML, Scala, Ruby
**Technologies/Frameworks**: VueJS, AngularJS, NodeJS, React, Django, Flask, Ruby on Rails, TensorFlow, Spark, Kubernetes, Docker, Qiskit
**Developer Tools**: Linux, Git, VSCode, Jupyter, Amazon Web Services, Microsoft Azure, Microsoft SQL Server Management Studio, Azure Data Studio, Microsoft Office, Agile

## Work Experience

**Teaching Assistant - 15-122: Principles of Imperative Computation**  **Aug. 2022 – Present**
*Carnegie Mellon University*  *Pittsburgh, PA*

- Facilitate a collaborative student learning environment through weekly recitation and labs for 600+ students
- Hone student understanding of course material, including algorithm correctness, data structures, and time/amortized complexity in C
- Clarify difficult concepts and provide student support through one-on-one office hours, revise coding assignments and written homeworks

**Full Stack Engineer Intern**  **May 2022 – August 2022**
*Digital XFormations*  *Calgary, AB*

- Created a standalone enterprise application from scratch using VueJS and SQL to manage workflows, user data, and generate reports
- Collaborated with business partners to analyze user requirements and design development strategies
- Developed APIs to efficiently gather, create, modify, and delete information from the database
- Constructed multi-layered forms for creating and managing user and group authorizations
- Perfected the UI for better quality-of-life, such as adding filterable searches, confirmations before changes were reflected on database
- Produced customizable, widget-based dashboards for administration team
- Built and managed Microsoft databases through Azure Data Studio
- Created test scenarios and supported user acceptance testing

**Computational Cancer Biology Researcher**  **Jan. 2022 – May 2022**
*Carnegie Mellon University*  *Pittsburgh, PA*

- Utilized pandas and SciPy to train and test various machine learning algorithms on cancer biology datasets to determine drug response on tumors
- Developed a stronger understanding of various machine learning frameworks through collaboration with mentor
- Provided weekly updates, ideas, and feedback for other ongoing projects within lab

## Projects/Other

**Personal Website** | *HTML/CSS, Bootstrap*  **June 2022**

- Designed and programmed personal website from scratch to host more information about myself
- Deployed through Github Pages and will continually receive updates and improvements

**Grocery Shopping Game** | *Python*  **Nov. 2021**

- Developed a shopping game where players navigate aisles, collect food, and avoid enemies
- Produced a modified version of Dijkstra's algorithm to track player and efficiently determine shortest path
- Utilizing Selenium to generate more special recipes for higher difficulty

**Subway Sandwich Discord Bot** | *Python*  **Oct. 2021**

- Created a bot to generate Subway orders for Discord servers
- Implemented Discord.py to send messages and react to messages in order to interact with users
- Added sandwich preference settings and user-favorite sandwiches for ease of making future orders

**Qubit by Qubit's Introduction to Quantum Computing** | *IBM and The Coding School*  **Oct. 2020 – May 2021**

- Established mathematical foundations required to perform calculations for quantum computing
- Learned fundamental algorithms and applications in quantum computing, such as Shor's algorithm and Quantum Key Distribution
- Utilized Qiskit and Python to code quantum circuits and algorithms to be run on simulated quantum computers