Kevin Wang

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Education

Carnegie Mellon University **Pittsburgh, PA**

Bachelor of Computer Science and Music Technology - Dean's List F21, S22 *Aug. 2021 – Present*

Relevant Coursework

- Principles of Imperative Computation
- Great Ideas in Theoretical Computer Science
- Matrices and Linear Transformations
- Principles of Functional Programming

Technical Skills

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

Leadership/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 500+ 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
- Worked 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 different actions were sent to the 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*

- Utilize pandas and SciPy to train and test various machine learning algorithms on cancer biology datasets to determine drug response on tumors
- Develop a stronger understanding of various machine learning frameworks
- Provide updates, ideas, and feedback for other ongoing projects within lab

Tartan Ambassador **Jan. 2022 – May 2022**

Carnegie Mellon University *Pittsburgh, PA*

- Conduct in-person and virtual campus tours for prospective and admitted undergraduate students while sharing stories about student experiences at CMU
- Answer visitor questions about about CMU and monitor written questions through emails and unanswered questions after events

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
- Stored user-favorite sandwiches for future orders
- Adding preferences settings so users can get orders similar to favourites or try something new

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 to code quantum circuits and algorithms to be run on simulated quantum computers