

Kevin Wang

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Education

Carnegie Mellon University

Pittsburgh, PA

BS Computer Science, Minor in Music Technology - Dean's List F21, S22, S23

May 2025

Relevant Coursework

- Introduction to Computer Systems
- Introduction to Machine Learning (PhD)
- Great Ideas in Theoretical Computer Science
- Parallel & Sequential Data Structures and Algorithms

Technical Skills

Languages: Python, C, Java, JavaScript, HTML5/CSS3, Rust, C++, C#, PHP, SQL, R, SML, Scala, Ruby

Technologies/Frameworks: VueJS, React, AngularJS, NodeJS, Django, Flask, Ruby on Rails, TensorFlow, Spark, Kubernetes, Docker, Qiskit

Developer Tools: Linux, Git, Jupyter, Figma, Amazon DynamoDB, Amazon S3, Microsoft Azure, Microsoft SQL Server Management Studio, Azure Data Studio, Microsoft Office, Agile

Work Experience

Software Development Engineer Intern

May 2023 – August 2023

Amazon Web Services

Arlington, VA

- Part of the Regions Management Service Team that builds software to assist AWS Service teams in expanding services into new AWS regions
- Investigated customer use cases and developed an internal tool to improve automation for customers such as technical program managers
- Utilized Java, Amazon S3, and Amazon DynamoDB for backend implementation, and React for the user interface
- Built APIs for frontend to communicate with Amazon DynamoDB and Amazon Lambda functions
- Designed manual tests and unit tests with Mockito, Jest, and React Testing Library, and performed integration testing to ensure code safety in production pipeline

Teaching Assistant - 15-122: Principles of Imperative Computation

Aug. 2022 – Present

Carnegie Mellon University

Pittsburgh, PA

- Lead weekly recitations and labs for 600+ students and facilitate a collaborative student learning environment
- 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
- Re-evaluate course material and institute changes to make content more understandable and interactive for students

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
- Built and managed Microsoft databases through Azure Data Studio
- Created test scenarios and supported user acceptance testing

Projects

Proxy Lab | C

Apr. 2023

- Created a web proxy that operated concurrently and utilized caches
- Employed concurrent programming concepts, locks, semaphores, and LRU caches

Shell Lab | C

Mar. 2023

- Implemented a Unix shell with job control and being able to toggle between foreground and background commands
- Utilized Unix signal and signal handling and process control

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