

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, S24

May 2025

RELEVANT COURSEWORK

- Distributed Systems
- Introduction to Machine Learning (PhD)
- Great Ideas in Theoretical Computer Science
- Algorithm Design and Analysis

TECHNICAL SKILLS

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

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

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

WORK EXPERIENCE

Software Development Engineer Intern

May 2024 – August 2024

Amazon Web Services

Arlington, VA

- On the AWS Fraud Prevention team
- Utilized Java, Amazon Step Functions, Amazon API Gateway, React, and TypeScript

Software Development Engineer Intern

May 2023 – August 2023

Amazon Web Services

Arlington, VA

- Part of the Regions Management Service Team, built software to assist AWS Service teams for new AWS region expansion
- 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 using Amazon API Gateway 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
- Perfected the UI for better quality-of-life, such as adding filterable searches, confirmations before changes were reflected on database
- 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