

KEVIN Y. WANG

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EDUCATION

University of Washington, Seattle, WA

Expected June 2023

- **Bachelors of Science, Computer Science, GPA: 3.9** (Dean's List)

Relevant coursework (through Fall 2022): Data Structures and Parallelism, Software Design and Implementation, Introduction to Algorithms, Systems Programming, Database System Internals, Computer Security, Data Visualization, Hardware/Software Interface, Introduction to Artificial Intelligence, Introduction to Data Management, Foundations of Computing I & II

RELEVANT EXPERIENCE

Software Development Engineer at Amazon, Intern

June 2022 – September 2022

- Improved operational workflow and security of resources for the Kindle Content Delivery Services team by completely automating the URL signing process, saving an estimated 6 developer hours every 90 days
- Developed an automatic SigV4 and CloudFront signing credential rotation process to occur every 90 days through AWS Cloud Development Kit, AWS Secrets Manager and AWS Lambda
- Demonstrated competence and growth with pipelined deployment, version control, test-driven development, service monitoring and dependency management

Software Engineer at Dow Jones & Company, Intern

June 2021 – August 2021

- Built and launched a send-and-search application for the Factiva content management team utilizing AWS S3. It processes and saves over 100,000 files and news stories everyday
- Created a web UI with ASP.NET enabling the team to effectively search through the last weeks' worth of news stories (~700,000) by the files' metadata saving the team from manual search time
- Installed function to download or resubmit returned files to the content processing pipeline

Teaching Assistant, University of Washington

January 2023 – March 2023

- Co-taught class of 20+ students weekly on data structures, algorithms, parallelism and more
- Responsible for creating and grading over 200 student assignments and tests

TECHNICAL SKILLS

Languages: Java, Python, C, C#, JavaScript, Typescript, C++, SQL

Other: AWS CDK, AWS S3, AWS Secrets Manager, AWS Lambda, AWS Cloudwatch, HTML, ASP.NET, CSS, Linux, Git, Docker, Data Structures & Algorithms, React, Database Management

PERSONAL PROJECTS

Campus Map

- Assembled a web UI that takes two locations on the University of Washington – Seattle Campus and draws out the shortest path between them utilizing a breadth first search. Implemented using Java, Spark and React

Data Structures

- Programmed multiple data structures and algorithms in Java from scratch. This includes a MinHeap, a AVLTree, a HashTable, HashTrieMap, QuickSort, and HeapSort

Simple DB

- Built a relational data base management system from the ground up in Java. Implemented a lock management system, indexing, and a query join optimizer.