Kevin Chen

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EDUCATION

University of Illinois Urbana-Champaign
- Online Master of Computer Science — May 2024 - Present
- Bachelor of Science in Computer Science + Linguistics — August 2020 - May 2023

Awards: Bronze Tablet (Highest Honor) Graduate, 2023 Outstanding Undergraduate in Linguistics

SKILLS

Languages: Java, Kotlin, GraphQL, Python, Typescript / HTML / CSS, C++, SQL, Bash

Frameworks and libraries: AWS CDK, Spring, Guice, Lombok, JUnit, Mockito, MockK, Apache Tomcat, React native, Jetpack Compose

Tools: Git, Linux, AWS (DynamoDB, S3, EC2, ECS, Lambda, SQS, Cloudformation), Docker, Gradle, Maven, Jira, CI/CD, LLM application with AWS Bedrock

EXPERIENCE

Amazon   **Seattle, WA**
Software Development Engineer   April 2024 - Present
- Launched the Natural Language Search functionality on Kindle using LLM with AWS bedrock, implementing query parsing, intent classification and RAG prompting
- Led the migration of Kindle's Search service into AWS, integrating GraphQL, containerization via AWS Elastic Container Service and asynchronous dependency calls with Kotlin coroutine flow
- **Achieved full CI/CD** by integrating integration and load testing, automated app size check, service monitoring and alarms as well as autoscaling and throttling
- Created and launched Interactive Filter refinements on Kindle for Android using Jetpack Compose, resulting in **+515k** in filter usage per month and **25%** increase in development velocity
- **2x Hackathon winner** exploring the applications of LLMs in personalized search recommendations and content summary generation

Software Development Engineer Intern   May 2023 - July 2023
- Implement the Kindle Search mobile (IOS, Android) UI using ReactJS, leading to **50%** reduction in code size and unified frontend logic across surfaces

Software Development Engineer Intern   May 2022 - August 2022
- Designed and created a data mining pipeline using AWS DynamoDB, EventBridge, SQS, S3 and Lambda to ingest customer search metrics and provide daily keyword trend updates

University of Illinois Urbana-Champaign   **Champaign, IL**
Course Assistant, Computer Systems and Software Design Studio   December 2020 - May 2022
- Coordinated feedback auditing and assignment distribution as course assistant group lead
- Led discussion sessions and designed assignments on programming style concepts (encapsulation, reusability, testability) and computer systems fundamentals (memory management, file I/O, networks)

PROJECTS

- Online grading platform designed for the National Taiwan University (NTU) graduate department of Linguistics. Technology used: Python, Flask, Javascript, HTML/CSS, MySQL, SQLAlchemy