

Kevin Chen

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EDUCATION

University of Illinois Urbana-Champaign

Online Master, Computer Science

May 2024 - Present

Bachelor of Science, Computer Science + Linguistics

August 2020 - May 2023

Awards and Activities: Bronze Tablet Graduate (Top 3%), Dean's List, 2023 Outstanding Undergraduate in Linguistics, Founder of Leetcode @ UIUC

SKILLS

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

Android skills: Jetpack Compose, Coroutines/Flow, Android Studio, Hilt, MVVM, Robolectric

Other skills and tools: AWS (DynamoDB, S3, EC2, ECS, Lambda, SQS, CloudFormation, Bedrock), React Native, Spring, Guice, Lombok, JUnit, Mockito, MockK, Git, Linux, Docker, Gradle, Maven, CI/CD Pipelines

EXPERIENCE

Amazon

Seattle, WA

Software Development Engineer

April 2024 - Present

- Led the migration of Kindle for Android's Search UI migration into **Jetpack Compose**, leveraging modern design language and animation, ensuring accessibility compliance, and reducing source code size by **45%**
- Created and launched Interactive Filter refinements on Kindle for Android using Jetpack Compose, resulting in **+515k** in filter usage per month
- Developed the Natural Language Search functionality on Kindle using **LLM with AWS bedrock**, implementing query parsing, intent classification and RAG prompting
- Completed migration of Kindle's Search service into AWS, integrating GraphQL, containerization via AWS Elastic Container Service and asynchronous dependency calls via Kotlin coroutine flow
- **2x Hackathon winner** exploring the applications of LLMs in personalized search recommendations and content summary generation

Software Development Engineer Intern

May 2023 - July 2023

May 2022 - August 2022

- Implement the Kindle search mobile (iOS, Android) UI using ReactJS with AJAX data injection
- 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)

Computer Vision Research Assistant, Energy Transport Research Lab

May 2021 - December 2021

- Assisted in the creation of Mask R-CNN object detection model via VGG annotator for liquid condensation

PROJECTS

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