

# KEVIN CHEN

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## EDUCATION

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**University of Illinois Urbana-Champaign** **GPA: 4.00 / 4.00**  
**B.S., Computer Science + Linguistics** 2020 - 2023  
**Relevant Coursework:** Natural Language Processing, Applied ML, Distributed Systems, Databases, Cloud Computing

## EXPERIENCES

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**Amazon** **Seattle, WA**  
Software Development Engineer Intern May 2023 - July 2023

- Improved the search result render latency by 10% via the implementation of a React-based WebView solution
- Created new search UI components using React and Node, complete with client-side Javascript data injection
- Led the conversion of Android native RecyclerView components to WebView for OS-agnostic development

**Amazon** **Seattle, WA**  
Software Development Engineer Intern May 2022 - August 2022

- Led the creation of a full-stack trending keyword service on the Kindle mobile app
- Created an AWS data pipeline (SQS, DynamoDB, S3, Lambda, Cloudwatch) that aggregates and caches trending data
- Delivered robust testing and fallback mechanisms for the retrieval and display of trending data

**Leetcode @ UIUC (Student Organization)** **Champaign, IL**  
President June 2021 - May 2023

- Co-founded and led a career-focused community of 200+ undergraduate and graduate students in CS and related fields
- Conducted weekly interviews with industry professionals such as Amazon, Google, Facebook and LinkedIn engineers
- Confirmed 50+ job offers for community members by providing job-search resources and team-matching

**University of Illinois CS 340 (Systems Programming) & CS 126 (Software Design Studio)** **Champaign, IL**  
Undergraduate Teaching Assistant December 2020 - May 2022

- Hosted weekly review sessions of programming projects in C++ and Java, providing detailed feedback on OOP design, efficiency, test quality and data safety
- Created course and test material on topics including models of processors, low-level programming, memory and file management, network systems, process control, Docker containerization and the use of cloud services

## PROJECTS

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**Personal Finance Organizer** **Python, Pandas, urllib, pygsheets, openpyxl, venmo\_api, regex**

- Organizes, aggregates and re-labels personal finance data obtained from Mint.com, with custom filtering options
- Uses open-source Venmo API to categorize mobile payment categories based on regex-matched payment message
- Synchronizes monthly financial data with Google Sheets via the Python GSuite API

**Text Sentiment Analysis (with Hyperparameter Tuning)** **Tensorflow, Keras, numpy, pandas, joblib**

- A sequential neural network that predicts the sentiment of product review texts with 94% accuracy rate
- Achieves model optimization through hyperparameter tuning and dropout regularization

**National Linguistics Olympiad Testing Platform** **Python, Flask, SQLite, HTML, CSS, Javascript**

- An online-testing/grading platform for the Linguistics Olympiad built in collaboration with the University Graduate Institute of Linguistics
- Implemented user authentication and roles, question post and response, sort and filter, user profile and metadata statistics, password hashing and image asset serving with Flask and SQLite

## SKILLS

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- Technical Skills:** Python, C, C++, C#, Java, Kotlin, SQL, Javascript, Typescript, OCaml, Tensorflow, Docker, ReactJS, NodeJS, MongoDB, NoSQL, JUnit, Mockito, AWS Lambda, AWS DynamoDB, AWS S3, AWS SQS, Git
  - Other Skills:** English (Native), Mandarin (Native), Japanese (JLPT N1), Spanish (Intermediate), Image / Video processing