KEVIN CHEN

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U.S. Citizen | Seattle, WA | Willing to relocate

EDUCATION

University of Illinois Urbana-Champaign (UIUC)　　　　　**GPA: 4.00 / 4.00 (Summa Cum Laude, Bronze Tablet)**
B.S., Computer Science + Linguistics | Minor, Business Administration　　　　　　　　　　　　*2020 - 2023*
Relevant Coursework: Natural Language Processing, Applied ML, Distributed Systems, Database Systems, Compiler Design

SKILLS

- **Technical Skills:** Python, C / C++, C#, Java, Kotlin, SQL, PostgreSQL, Go, Javascript, Typescript, OCaml, Tensorflow, Docker, ReactJS, Node.JS, Android development, MongoDB, NoSQL, Flask, OpenCV, Git, Numpy, Pandas, JUnit, Mockito, AWS Lambda, DynamoDB, S3, Athena, Cloudwatch, SQS
- **Other Skills:** English (Native), Mandarin (Native), Japanese (JLPT N1), Spanish (Intermediate), Image / Video processing

EXPERIENCES

Amazon　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Seattle, WA**
Software Development Engineer Intern, Kindle Unified Search　　　　　　　　　　　　　　May 2023 - Jul. 2023
- Improved the search result view rendering latency by migrating to a React-based webview
- Created new search components using React and Node.JS, presenting search data through JS injection
- Led the conversion of Android native RecyclerView component to WebView (Kotlin) for OS-agnostic development

Software Development Engineer Intern, Kindle Unified Search　　　　　　　　　　　　　　May 2022 - Aug. 2022
- Led the implementation of a service on the Kindle mobile app which captures and displays trending search queries
- Created an AWS data pipeline (SQS, DynamoDB, S3, Lambda, Cloudwatch) using AWS CDK in Python and Java

Leetcode @ UIUC (Student Organization)　　　　　　　　　　　　　　　　　　　　**Champaign, IL**
President　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Jun. 2021 - May 2023
- Hosted a community of 200+ undergraduate, Master and PhD students for mock programming interviews
- Conducted weekly interviews with industry professionals from Amazon, Google, Facebook, LinkedIn etc.
- Provided job-search resources and team-matching for community members, successfully confirmed 50+ job offers

University of Illinois CS 340 (Systems Programming), CS 126 (Software Design Studio)　　**Champaign, IL**
Undergraduate Teaching Assistant　　　　　　　　　　　　　　　　　　　　　　　Dec. 2020 - May 2022
- Hosted weekly discussion sessions of programming projects in C++ and Java, grading and providing feedback on code readability, test robustness and encapsulation
- Designed course material on topics including models of processors, low-level programming, memory management, network systems, Docker containerization and cloud services

PROJECTS

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
- Periodically syncs financial data (income statement, balance sheet) through GSuite API

Text Sentiment Analysis (with Hyperparameter Tuning)　　　　　**Tensorflow, Keras, numpy, pandas, joblib**
- Designed a sequential neural network with dropout regularization to predict the sentiment of product review texts
- Used hyperparameter tuning techniques to optimize layer size, learning and dropout rate to achieve 94% accuracy

NTU Linguistics Olympiad Testing Platform　　　　　　**Python, Flask, SQLite, HTML, CSS, Javascript, CMD**
- An-online testing/grading platform for the International Linguistics Olympiad, contracted by the National Taiwan 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