Jinghong Peng

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Education

Carnegie Mellon University   **Pittsburgh, PA**
- Master of Information Systems Management   Aug 2022 - Dec 2023
- Relevant Courses: Data structure and Algorithms, Database Systems, Distributed Systems, Large Language Models

Georgia Institute of Technology   **Atlanta, GA**
- Bachelor of Science in Computer Engineering; Minor in Computing & Intelligence   Dec 2019 - May 2022

Emory University   **Atlanta, GA**
- Bachelor of Arts in Mathematics and Economics   Aug 2017 - Dec 2019

Industry Experience

Splunk   **San Jose, CA**
Software Engineer Intern   May 2023 – August 2023
- Developed and integrated a priority-based system for the IT Operations Analytics (ITOA) Refresh Queue, which significantly increased Splunk's job **processing efficiency** by **65%** and enhanced the system's **fault tolerance** by **80%** using Python.
- Implemented an **interactive dashboard** using **React.js** for real-time monitoring and management of the refresh queue. The dashboard **improved user experience** of over **15000** cooperate customers.
- Architected, developed, and refined a suite of **7 RESTful API endpoints** to facilitate the management of refresh queue jobs.
- Undertook comprehensive **testing** responsibilities that cover **100%** of the new feature using **Python** and **JavaScript**.

Meta   **Menlo Park, CA**
Software Engineer Intern   May 2022 – Aug 2022
- Developed **frontend** and **backend** of a Centralized Preference Management (CPM) tool for **Android** Messenger, impacting over **1 billion** users using **Kotlin**, **Java**, **GraphQL**, **PHP**, and **Hack**.
- Designed and implemented a custom Quick Promotion using **Figma**, internal tools, and **Kotlin** to promote CPM features for Android Messenger users and raise **user engagement** by **30%**.
- Developed detailed product launch plan and led technical design meetings for CPM features with engineers and product designers.
- Constructed backend for CPM feature to manage over **1B+** user preference data on **a large scale** using **GraphQL** and **PHP**.
- Increased **Jest testing** coverage for Recurring Notification features from 0 to **100%** using **JavaScript**.

Aven (series-C startup)   **Burlingame, CA**
Software Engineer Intern   Dec 2022 – May 2023
- Played a significant role in enhancing Aven's Underwriting System by successfully implementing more than **30** new features, utilizing **Python** and **TypeScript.**
- Leveraged **Retool**, **Postgres**, and **Snowflake** to architect and develop **five** intuitive **dashboard** interfaces. Providing insightful underwriting metrics used by **60+** engineers, thereby aiding strategic decision-making processes.
- Devised a robust **ETL** (Extract, Transform, Load) workflow for Aven's Underwriting system, leveraging **Python** and **Prefect**.
- Achieved **100% unit test** coverage for implemented features with Python and **Typescript**.

Kiwi   **Atlanta, GA**
Co-founder & Software Developer   Dec 2020 – Aug 2021
- **Led a team of 3 engineers** to develop a **recommender system** that matches fashion items all available features (text, image, meta data) across **18** retailer websites accruing **16K+** users.
- Developed the frontend of the browser extension using React **JavaScript**, **HTML**, and **CSS**.
- Implemented the backend of the browser extension with Python, **Node.js**, and **Rest API** on **AWS** Amplify.
- Developed an entity matching algorithm using a random forest classification ML model, achieving **85%** accuracy.

Research Experience

Contextual Computing Group, Georgia Institute of Technology   **Atlanta, GA**
PopSign: Teaching American Sign Language Using Mobile Games
Software Developer   Dec 2020 - May 2022
- Collaborated with teammates to develop a mobile iOS/Android game to teach deaf children's parents ASL vocabularies.
- Created new game features with Unity and C# that allowed users to select vocabulary and customize a new game level.

Skills

Programming: Java, Python, Kotlin, JavaScript, React, Typescript, Postgres, GraphQL, C++, HTML, CSS, MySQL, Node.js
Software Tools: GitHub, Linux, AWS, Postman, Snowflake, Rancher, Docker, Kubernetes, Prefect, Retool