

Jinghong Peng

pjhjinhong@gmail.com | (404)-510-3525 | linkedin.com/in/jinghong-peng/

Education

Carnegie Mellon University

- Master of Information Systems Management
- Relevant Courses: Machine Learning in Production, Large Language Models, Database Systems, Distributed Systems

Pittsburgh, PA

Aug 2022 - Dec 2023

Georgia Institute of Technology

- Bachelor of Science in Computer Engineering; Minor in Computing & Intelligence

Atlanta, GA

Dec 2019 - May 2022

Emory University

- Bachelor of Arts in Mathematics and Economics

Atlanta, GA

Aug 2017 - Dec 2019

Industry Experience

Splunk

Software Engineer Intern

San Jose, CA

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 50% and enhanced the system's fault tolerance using Python.
- Implemented an interactive dashboard using **React.js** for real-time monitoring and management of the refresh queue. The tool improved user experience by providing a comprehensive visual representation of the queue and job priorities, and gave administrators the flexibility to easily modify or remove jobs.
- Architected, developed, and refined a suite of **RESTful APIs** to facilitate the management of refresh queue jobs. Ensured the APIs' seamless compatibility with the Splunk environment and MongoDB Key Value (KV) store, leading to improved operational efficiency.
- Undertook comprehensive testing responsibilities, including unit testing, system testing, and integration testing, to ensure robust and efficient system operations.

Meta

Software Engineer Intern

Menlo Park, CA

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.
- 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 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

Software Engineer Intern

Burlingame, CA

Dec 2022 – May 2023

- Played a significant role in enhancing Aven's Underwriting System by successfully implementing more than 20 new features, utilizing **Python** and **TypeScript**.
- Leveraged **Retool, Postgres, and Snowflake** to architect and develop five intuitive dashboard interfaces. These interfaces provided insightful underwriting metrics, 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

Co-founder & Software Developer

Atlanta, GA

Dec 2020 – Aug 2021

- Created a browser extension to compare prices and collect reviews for fashion products automatically.
- 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

PopSign: Teaching American Sign Language Using Mobile Games

Atlanta, GA

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