

Helen Fang

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Education

The University of Texas at Austin

COMPUTER SCIENCE, B.S.

Expected May 2023

GPA: 4.0

- **Selected Coursework:** Cloud Computing (**Hadoop/PySpark**), Software Engineering (**Flask/React/MySQL/AWS**), Computer Graphics (**C++/OpenGL**), Operating Systems (**C**), Computer Architecture (**C**), Data Structures (**Java**)

Work Experience

Verkada

SOFTWARE ENGINEERING INTERN

San Mateo, CA

Sept 2022 - Dec 2022

- Implemented utilities to build multi-arch docker images and cross-compile Python and Golang binaries in **Bazel**.

Jane Street

SOFTWARE ENGINEERING INTERN

New York City, NY

May 2022 - Aug 2022

- Implemented an RPC protocol and command-line interface for inferring column schemas and other metadata for .csv and .parquet datasets and Postgres databases.
- Extended scripting syntax, expanded logging support, and added syntax highlighting to an internal tool used by desks across the firm.

Meta

SOFTWARE ENGINEERING INTERN

Remote - New York City, NY

Aug 2021 - Nov 2021

- Built a new feature from end-to-end to set custom product cover images for collections in Instagram Creator Shops using **Hacklang** and **Python Django**. Created a new database schema to support the feature and integrated it with shop-building backend framework. Implemented full in-app flow by adding UI elements using Bloks, a server-side rendering framework.

Slack Technologies

SOFTWARE ENGINEERING INTERN

Remote - Austin, TX

May 2021 - Aug 2021

- Restructured the Enterprise Grid migrations framework to ensure duration estimates are front-of-mind during development, improving scalability and accuracy for a system that represents \$84M in ARR (18% of Slack Enterprise APR).
- Developed a tool to keep track of duration estimate changes in a **MySQL** table and alert of significant updates, in order to enhance transparency and streamline the migration process for both Slack representatives and customers.

UT Austin Department of Computer Science

UNDERGRADUATE TEACHING ASSISTANT

Austin, TX

Jan 2021 - May 2022

- Teaching assistant for CS313E: Elements of Software Design, a data structures & algorithms class taught in **Python**. Wrote grading scripts for assignments and exams, and held triweekly office hours to help students debug code.

Google

STUDENT TRAINING IN ENGINEERING PROGRAM (STEP) INTERN

Remote - Austin TX

May 2020 - Aug 2020

- Worked closely with two other interns to design and develop a full-stack event organizer web application using **HTML/CSS**, **JavaScript**, **Java servlets**, and **Google Cloud Platform** APIs. Utilized **Apache Spark** to create a recommendation system that combines collaborative and content-based filtering to suggest events to users.