Education

The University of Texas at Austin

Expected May 2023

COMPUTER SCIENCE, B.S.

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 ____

Jane Street New York City, NY

SOFTWARE ENGINEERING INTERN

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 syntax for Webs3 user-defined modules to enable flagging functions and variables for logging. Created a micro-service to poll for updates in logging config files and display this on the UI.
- Added syntax highlighting to editing windows on the Webs3 web interface.

Meta Remote - New York City, NY

SOFTWARE ENGINEERING INTERN

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 Remote - Austin, TX

SOFTWARE ENGINEERING INTERN

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

Austin, TX

Undergraduate Teaching Assistant

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.

Projects____

Polymesh Subdivider

- Used C++ and OpenGL to create an interactive polymesh renderer that loads 3D models from .OBJ files.
- Implemented the catmull-clark, loop, and doo-sabin subdivision algorithms.

PintOS

• Significantly expanded a toy OS using **C**. Incorporated priority scheduling, system calls for user programs, and virtual memory, and converted the existing single-thread file system into an multi-threaded, multi-level indexed file system.