Ⱳ peter wu

peterlingwu [at] gmail • peterwu.dev • linkedin.com/in/~peter/ • github.com/ptwu

experience

| Citadel
| Software Engineer   Aug 2023 - present

| YouTube
| Software Engineer Intern   May 2022 - Aug 2022
| significantly improved video quality for over 5 million YouTube TV subscribers by developing a data
| processing pipeline in C++ to sample and process videos for internal quality verification.

| Google
| Software Engineer Intern   Jun 2021 - Aug 2021
| provided more actionable intelligence to users of Ads Display & Video by discovering unvisited code in
| Python bidding strategies, interfacing with ML models to optimize marketing objectives.

education

| Cornell University
| B.S., Computer Science   Aug 2019 - May 2023
| college of engineering with specialization in mathematics. graduated one semester early.
| + teaching assistant for Machine Learning, Functional Programming

skills

| Primary Languages: C++ • Java • Python • OCaml • TypeScript
| Technologies: <stream processing> Kafka, gRPC
| <containerization> Kubernetes
| <scientific computing> NumPy, Pandas, PyTorch
| <databases> SQL & NoSQL
| <frontend development> React, Redux

projects

| Cascade
| c++ • mpi[high-performance computing] • distributed systems   May 2023
| cloud application framework powered by RDMA data paths, backed by a distributed key/value store.
| research advised by Ken Birman and Weijia Song.

| Distributed Texas Hold-Em Poker
| express[node.js] • socket.io[websockets]   Apr 2020
| webapp allowing for players across multiple devices and networks to join rooms and play poker in
| real-time. the app is open-sourced and has 75+ stars on GitHub.

awards

| USA Computing Olympiad Gold Division (2017)
| USA Biology Olympiad Semifinalist (2019)
| Cornell Math Contest in Modeling Top 4 (2020)