Hanru (Jonathan) Yan

(412) 652-2039
hanru.yan99@gmail.com
Atlanta, GA

EXPERIENCE

TigerGraph, CA — *Software Engineer*

NOV 2021 - FEB 2023

- Lead maintenance and development of Kubernetes offering
- Implementing product-specific features such as expanding, shrinking, and upgrading clusters to work with Kubernetes
- Update Kubernetes deployment with custom routing rules to ensure uptime of services hosted on specific nodes

Carnegie Mellon University, PA — *Summer Research*

FEB 2020 - AUGUST 2020

Under Prof. Seth Goldstein

- Helped implement user-level (green) threads on a theoretical system supporting user-level interrupts
- Designed efficient system call interactions for green threads to avoid blocking
- Minimized overhead of context switches and system calls from green threads

GraphSQL, Inc. DBA TigerGraph, CA — *Software Engineering Intern*

MAY 2019 - AUGUST 2019

- Worked on creating and integrating profiling capabilities to product
- Worked with both sampling and instrumentation platforms with lack of documentation
- Implemented functionality to profile across multiple threads

ChengXin Robotics Ltd., Nanjing, China — *Software Engineering Intern*

JUNE 2018 - JULY 2018

- Worked on an application with custom real-time face landmark recognition
- Created a Java wrapper for the dlib c++ library using JNI
- Used asynchronous callbacks to compensate for slow facial recognition times on older devices

EDUCATION

Georgia Institute of Technology, GA — *PhD*

AUGUST 2023 - CURRENT

Areas of research:

- Rest API testing techniques

Carnegie Mellon University, PA — *BS*

AUGUST 2017 - MAY 2021

Notable classes:

- 15-410 Operating System Design and Implementation
- 15-411 Compiler Design
- 15-451 Algorithms Design and Analysis
- 15-414 Automated Program Verification
- 17-355 Program Analysis

SKILLS

C, C++, OCaml, C#, Python
X86 Assembly
Vim, Git, Linux development

LANGUAGES

English, Chinese