

JINGYUAN CHEN

EDUCATION

(+1) 919 - 667 - 8835 ◊ leocjy105@gmail.com

Princeton University

Master & PhD in Computer Science

2022 -

New Jersey, US

University of North Carolina at Chapel Hill

Bachelor of Science in Computer Science, Bachelor of Science in Mathematics

2018 - 2022

Chapel Hill, US

- Graduated with highest honor, GPA: 3.99/4.0

RESEARCH INTERESTS

Programming Languages, Cloud Computing, Decentralized Systems

RESEARCH EXPERIENCES

Automatic Fined-Grained Instrumentation for Microservices

Sep 2022 - Present

Graduate Research

Developing tools to generate and dynamically instrument fined-grained tracepoints in microservices to capture performance issues at the source-code level. Designed control-flow and data-flow analysis algorithms to track provenance of program states across microservices.

PROJECTS

JOS64 Exokernel

Jan 2020 - May 2020

Course Project (advised by Donald Porter)

- <https://github.com/leochanj105/JOS64.git>
- An x86-based exokernel style operating system

Distributed Object Replication Framework

Jan 2020 - May 2020

Course Project (advised by Prasan Dewan)

- <https://github.com/leochanj105/Distributed-replication-framework>
- A Java distributed object replication framework supporting consensus protocols

2D Computer Graphics Library

Aug 2019 - Dec 2019

Course Project (advised by Mike Reed)

- <https://github.com/leochanj105/2D-Graphics-Lib>
- A 2D computer graphics rendering library in C++

TECHNICAL SKILLS

Familiar with

Java, C, Python, Javascript, x86 Assembly, SQL, Ocaml, CUDA

Have worked with

C++, Go, Rust, Haskell, Lisp, Coq, Julia, Prolog, Swift

Other Tools

Tensorflow, Pytorch, Git, MatLab, Verilog