

LI-YUAN (LEE) WEI

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EDUCATION

University of Utah

Master of Science in Computer Science

Salt Lake City, Utah

2024/08 – 2026/05 (Expected)

- Courses: Advanced Compilers, Computer Architecture, Programming Languages

National Taiwan University of Science and Technology

Bachelor of Science in Electronic and Computer Engineering

Taipei, Taiwan

2013/09 – 2017/06

PROJECTS

LLVM Project: Active contributor.

- Implemented missing InstCombine optimizations.
- Fixed LLVM regression tests involving Undefined Behaviors.

VitaminC: Developed a simple C compiler targeting **QBE, LLVM, written in C++, Flex, Bison.**

- Implemented various C features, such as declarations, functions, function calls, arrays, pointers, loop statements, if-else statements, expressions, structs, unions.
- Utilized **LLVM IR builder API** to generate **LLVM IR** as the compiler backend.

CS 6120 Advanced Compilers: Implemented several compiler backend optimizations, including dead code elimination, local value numbering, loop invariant code motion, data-flow analysis, LLVM custom passes, garbage collectors.

EXPERIENCE

OpenNet Limited Inc.

DevOps Engineer

2021/07 - 2022/08

Taipei, Taiwan

- Introduced **ArgoCD** into the deployment pipeline, **resulting in a 50% reduction in deployment time.**
- **Saved 60% of processing time** for updating secrets with **Jenkins, Secrets Operations tool.**
- Automated MongoDB creation with AWS OpsWorks, **achieving a 60% reduction in creation time.**
- **Migrated legacy Kubernetes cluster with a 99.9% of uptime.**

17 Live Inc.

Site Reliability Engineer

2020/10 - 2021/07

Taipei, Taiwan

- Introduced **a new monitoring system** for Redis clusters utilizing Prometheus and Grafana.
- Built a new environment for testing, **reducing QA and development time by 50%.**
- Main point of contact for multiple third-party services, including Redis Labs, CircleCI, Datadog.

iKala Interactive Media Inc.

Senior Google Cloud Customer Engineer

2018/03 - 2020/10

Taipei, Taiwan

- **Reduced customer issue processing time by 40%** through automation of the support system.
- Optimized visualization report with **Excel, BigQuery, resulting in a 60% reduction in process time.**
- Built a monitoring system for billing usage, **saving customers hundreds of thousands of USD.**
- **Led a 24/7 customer support team, achieving 98% positive feedback.**

SKILLS

Programming Languages:

C, Modern C++

LLVM:

LLVM Builder API, Custom LLVM Passes

DevOps Tools:

Kubernetes, Docker, Prometheus, Grafana, Nginx, ArgoCD, Helm, Jenkins, Terraform, Ansible, Chef, Salt stack

Public Cloud:

Google Cloud Platform(GCP), Amazon Web Services(AWS)