# **Chih-Ting (Justin) Yeh**

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# **WORK EXPERIENCE**

# Institute for Software Integrated Systems, Vanderbilt University

Research Software Engineer Intern

08/2023 - Present

- Developed emulation tools on top of Mininet to validate the effectiveness of reinforcement learning agents
- Built visualization tools with FastAPI, PostgreSQL, and Plotly, converting network data into interactive plots
- Engineered 4 continuous integration pipelines for internal projects with Jenkins, Docker, and Nginx
- Authored and presented a paper titled "Realistic and Lightweight Cyber Agent Training Environment using Network Emulation in Mininet" at DESTION 2024 Workshop Program

### **Academia Sinica**

Research Assistant

07/2020 - 03/2022

- · Developed fund recommendation systems, achieving a 150% increase in purchase cases for clients
- Implemented a PyTorch-based multi-task learning framework to predict early blockbusters, resulted in a 20+% performance improvement on two real-world datasets in different languages
- · Authored and published a paper titled "A Learning Framework with Disposable Auxiliary Networks for Early Prediction of Product Success" at the IEEE/WIC/ACM WI-IAT 2021 conference

### EDUCATION

# Vanderbilt University

Master's, Computer Science - 3.87 GPA

08/2022 - 05/2024

# **National Taiwan University**

**Engineering Science and Ocean Engineering** 

09/2014 - 06/2018

### SELECTED PROJECTS

# Web-based Solitaire Game | React, NodeJS, MongoDB, Redis, AWS EC2, Route53

08/2023 - 12/2023

- Live website: solitaireis.com
- Implemented a robust full stack Solitaire app using Node.js, MongoDB, Redis, GitHub OAuth 2.0, React.js, Styled Components, AWS EC2, and Route53

#### Portfolio - Cloud Resume Challenge | Terraform, AWS, GitHub Action, TypeScript, NextJS 05/2024 - Present

- Live website: justinleafyeh.com
- Implemented a serverless portfolio website using AWS S3 Bucket, Route 53, Cloudfront, Certificate Manager, Next.js, and API Gateway, Lambda function, Dynamo DB as backend.
- Followed CI/CD practices with Terraform and GitHub Action.

# iOS AR Network Visualization App | Swift, SwiftUI, RealityKit, ARKit

04/2024 - 05/2024

- Developed an iOS application using Swift, SwiftUI, RealityKit, and ARKit to visualize cybersecurity simulation
- Implemented an API backend using FastAPI and PostgreSQL to manage the state of network simulations
- Live demo: https://github.com/justinyeh1995/CybORG-ARViz/tree/main

# Java Spring Boot Movie Recommendation Systems | Java19, Gradle, Spring Boot

01/2023 - 05/2023

 Implemented microservices using Spring WebMVC, Spring WebFlux, Spring Cloud Gateway, Spring Data JPA, and the concurrency features of Project Reactor, leveraging parallel reactive programming

# SKILLS

- Languages: Python, JavaScript/TypeScript, SQL(Postgres, MySQL), Java, C++
- Web: React.js, Next.js, Node.js, Express.js, Spring Boot, FastAPI, Flask, HTML/CSS, Tailwind
- Databases: PostgreSQL, MySQL, MongoDB, Redis
- · Cloud, DevOps Tools: AWS, Terraform, Gitub Action, Docker, Kubernetes, Jenkins
- Developer Tools: Unix/Linux shell scripting, Git, Maven, Gradle, NPM, Webpack