Chang-Yuan Shih

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EDUCATION

Rice University   Houston, TX | Sep. 2020 – Dec 2021
Master of Computer Science
- GPA: 3.95/4.0
- Highlighted courses: Web Development & Design • Parallel Computing • Database System Implementation • Object-Oriented Programming & Design

National Taiwan University   Taipei, Taiwan | Sep 2015 – Jan 2019
B.S. in Computer Science and Information Engineering
- GPA: 3.85/4.3; Last 60 - 4.18/4.3
- Honor: Presidential Award (Ranked first 2018 Fall: 4.3/4.3)
- Teaching Assistant for course Data Structures and Algorithms
- Managed CSIE department's workstations that serves thousands of students and faculties

EXPERIENCE

Google LLC | Software Engineer   Seattle, WA | Mar 2022 – Now
- Google Cloud, Virtual Machine Memory Management Team

Samsung SARC | Software Engineer Intern   Austin, TX | May 2021 – Aug 2021
- Project: GPU Compiler Fuzz Testing **-** Automated the testing of GPU compiler by creating a toolkit working with my customized version of open-source tool GraphicsFuzz. Effortlessly generates fuzzed test inputs, runs the tests, and reduces the erroneous fuzzed input for easy error identification
- Helped the team to identify errors for the compiler on the new Samsung Exynos mobile chipset.

Academia Sinica | Research Assistant   Taipei, Taiwan | Jan 2020 - Jul 2020
               | Research Intern | Apr 2018 - Jun 2019

EMCLab, Research Center for Information Technology Innovation, Prof. Pi-Cheng Hsiu
- Distributed deep learning (DDL): Experiments for DDL strategies (ex. Synchronous Ring/Parameter-Server) for our new DDL platform framework with TensorFlow on AWS/GCP. Found and optimized the communication bottleneck for the DDL framework, which lowers the latency by 30% to 60%.
- Embedded DL: Real-time Keras-based SSR-Net (Age estimation network) on ARM-based device
- Intermittent DL: New convolution strategy concept for intermittent IoT devices

Beyond Media Global | Technology Intern   Taipei, Taiwan | Nov 2018 – Jun 2019
- Project: Adeqo - Automated clients' weekly report processing by developed the full-stack of a Ruby on Rails, Python, PostgreSQL, Google Data Studio based SEO data retrieval and analysis platform
- Full-stack development for clients' website, IT support

Freelancer | Full-Stack Web Developer   Remote | Dec 2019 – Mar 2022
- Clients' website design and development on a piecework basis; server and website maintenance
- Clients: Soar Cloud HR Solutions • ShangKai Steel • Lohas Glasses • and more

The LanYang Ballet | Principal Dancer   Taipei, Taiwan | Jul 2008 – Aug 2020
- Fifth place in international ballet competition "Taiwan Grand Prix, 2013" among other professionals
- Practiced ballet since kindergarten and kept performed on stage annually since 2005

LANGUAGES

C • C++ • Python • Java • HTML/CSS • JavaScript • React JS • SQL • Golang • Ruby/RoR