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Chenghang (Bill) Li

EMPLOYMENT

Software Developer	Nyriad, Exascale Software	August 2018 – February 2019
Product Development, Linux Kernel Space		https://nyriad.com

- Implemented algorithms for a kernel module that led to increased software IOPS by ~100,000%
- Developed a product integrated benchmarking tool, utilizing Linux Asynchronous Input Output in user space
- Configured a custom Linux kernel to generate code coverage in kernel space for a CI/CD pipeline
- Took a product through an automatic testing system, written with respect to IEEE/ISO 90003 SoftEng QMS
- Applied ACID standards to eliminate race conditions in kernel space IO handling, created custom tailored POSIX tests

Tech: *Memory Allocation, Low-Level Programming, C, C++, Python, CUDA, Promox, Kubernetes*

Technical Consultant	Reach NZ	January 2017 – August 2018
		http://reach17.co.nz

- Testing of customer facing IT infrastructure and computer systems to ensure robustness and quality
- Designed and coded an electronic solution to track customer data to upgrade an existing paper method
- Frequent interaction with stakeholders and customer to gather requirements to ensure projects were of quality

Tech: *MS Office, HTML, CSS, SQL, RaspPi, Debian*

Independent Contractor	Riot Games	June 2015 – July 2016
		https://www.riotgames.com

- Worked closely with different personalities and professionals in professional gaming (League of Legends)
- Helped contribute and build an Esports organization which was later sold for an undisclosed number

EDUCATION

Auckland, New Zealand	University of Auckland	May 2018

- Bachelor of Science, Computer Science – Applied Algorithms, Operating Systems and Computational Theory

Auckland, New Zealand	Auckland International College	May 2013

- International Baccalaureate – HL Math, Eng, Bio. EE Topic: Human stomach protein digestion rate by pH levels

TECHNICAL EXPERIENCE

Independent Project – Open Source	https://github.com/slaytr/GameOfLife	2018

- Proving multi-threading advantage of GPU's to solve time complexity challenges in a self-playing game

Group Project - Private	Airplane Race Data Analyzer	2015

- An application that converts and analyzes a stream of data for race pilots and assessors to use (RESTful API)

OTHER/AWARDS

- Third World Country Volunteer, Medical Volunteer in rural Chitwan in Nepal, 2012
- UNICEF/Amnesty International, Organized and participate in fundraisers for charity organizations, 2011-2019
- NZ Youth Team Leader, NZ Lead Representative at a 5000+ International Youth Conference in China, 2013
- NZ Interschool Chess Champion, 1st Chesspower NZ, 2nd Chesspower International (NZ Rep), 2012
- LeetCode W134 Coding Contest – Top ~25%

TECH/LANGUAGES   (Spoken: English, Mandarin)

- Core: Python, C++, Java
- C, HTML, CSS, JS, SQL, XML, JSON, CUDA, ProtoBuf, ZeroMQ, PyCharm, CLion, VSC, Eclipse, Jira, Confluence, Git, Gitlab, Github, Jenkins, TeamCity, AWS S3, Selenium, Tensorflow, Flask, Requests, etc.