

LO, Man Hei (盧文曦)

Researcher, Cytomics Limited

(852) 6188 1817, lomanhei@lomanhei.com, <https://lomanhei.com>

Working Experience

Cytomics Limited, Hong Kong Science Park

June 2020 - Now

Researcher, Technology Manager

1. Assisted in genomic data analysis, included data cleansing and visualization. Also helped setup an automatic analysis pipeline to minimize the effort.
- Related Skills: R, Python, Bash, Git, GitLab
2. Setup and maintained a hybrid computing server and web servers, handling gigabytes of data.
- Related Skills: Cloudflare (DNS), AWS (EC2, Lightsail), Azure, Hyper-V, Docker, Ubuntu, Apache2 Server, MySQL, Ansible...
3. Built and maintained the company website and internal web applications.
- Related Skills: Cloudflare (DNS, Email), AWS (Lightsail, SES, ECS, ECR), Wordpress, HTML, CSS, JS (React, JQuery, Node.js), PHP, Python, GitLab...

The Department of Physics, The Chinese University of Hong Kong

June 2019 – April 2020

Web Developer (Student Helper)

1. Built several websites, including the department home page, a conference website with a registration platform and a series of related websites. Links is listed at the end.
- Related Skills: PHP, JS (JQuery, Bootstrap), CSS (Bootstrap)

The Department of Physics, The Chinese University of Hong Kong

June 2019 – Aug 2019

Student Researcher (Internship)

1. Studied the reconstruction of lattice structures from their (energy) band structure, the project was done with the aid of machine learning (PyTorch).
- Related Skill: Python

Skills

Languages: Cantonese (Native), English (Fluent), Putonghua (Fluent).

Computer Skills: Proficient in MS Office and data analysis; Solid experience in software development and system administration (e.g. Cloudflare, AWS, Azure, Firebase, Hyper-V, Linux, Docker, Kubernetes, Ansible, Git (GitHub, GitLab), Apache2, Nginx...).

Programming Language:

Fluent: Julia, Python, R, Bash Script, HTML, CSS, JS (Vue, React, JQuery, Node.js), PHP (Laravel).

Hand-on: SQL(MySQL, SQLite), COBOL, C/C++, C#, Fortran, Java, Kotlin, Wolfram Language.

Education

The Chinese University of Hong Kong, New Territories, Hong Kong

Sept 2016 – Dec 2020

1. Bachelor of Science in Physics, Second Class Upper Division

The Hong Kong Academy for Gifted Education, New Territories, Hong Kong

Dec 2010 – June 2016

Appendix – Links

Web Development

1. Company website – <http://cytomics.com.cn/>
(Related Skills: Cloudflare (DNS, Email), AWS (Lightsail, SES), Wordpress)
2. Department website – <http://www.phy.cuhk.edu.hk/>
(Related Skills: HTML, PHP, JS (jQuery, Bootstrap), CSS(Bootstrap))
3. Academic Conference – <http://www.phy.cuhk.edu.hk/studentconf/>
(Related Skills: HTML, PHP, JS (jQuery, Bootstrap), CSS(Bootstrap))

Online Tutorial

1. Julia Tutorial (Archived) – <http://www.phy.cuhk.edu.hk/studentconf/JuliaTutorial/>
(Related Skills: HTML, PHP, JS (jQuery, Bootstrap), CSS(Bootstrap))

Data Analysis Course Work

1. Random number generator – https://lomanhei.com/course-work/PHYS3061_report.pdf
(Related Skills: C, Julia)
2. Stochastic Sudoku solver – https://lomanhei.com/course-work/PHYS4061_report.pdf
(Related Skills: C, Julia)

Web Applications

1. Stochastic Sudoku solver – <https://lomanhei.com/apps/sudoku-solver>
(Related Skills: HTML, PHP, JS (jQuery, Bootstrap), CSS(Bootstrap))
2. Multiplayer Sudoku – <https://lomanhei.com/apps/sudoku-multiplayer>
(Related Skills: HTML, JS (jQuery, Bootstrap, NodeJS, Express, WebSocket), CSS(Bootstrap))
3. Renju Game – <https://lomanhei.com/apps/renju>
(Related Skills: Cloudflare(Pages), GitHub, HTML, JS(Vue, Worker))