SEAN LI-SHIN HO

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OBJECTIVE

Graduated from Master of EarthScience, NCKU. With 2+ years of experience in System Administrators/System Operators/SRE, seeking full-time DevOps/SRE roles.

EDUCATION

Master of Earth Science, National Cheng Kung University 2019 - 2022
Relevant Coursework: Observational Seismology, Programming and Data Processing for EarthScience

Bachelor of Earth Science, National Cheng Kung University 2015 - 2019

SKILLS

Technical Skills	Linux, Python, Shell Script, Docker, FreeBSD, CI/CD
Soft Skills	Leadership, Communication
Programming Languages	Python, MATLAB, C/C++, JavaScript, SQL
Web Development	Nginx, Flask, Node.js, HTML5, CSS, jQuery, React
Cloud Infra & DevOps	Proxmox VE, Docker, Gitlab CI, GitHub Action, Grafana, Librenms
Tools	Git, Unix shell, LaTeX, Vim, Scipy, Numpy, Pandas
Cartography Software	QGIS, Matplotlib, GMT (Generic Mapping Tools)

EXPERIENCE

Seismology Lab, NCKU Jul 2018-Aug 2022
Research Assistant *Taiwan*

- Applying GPS processing result in GIS software for figuring out the relationship between Fault and Soil liquefaction.
- Developing a seismic data procedure applying to the research.
- Use Python and GMT (Generic Mapping Tools) to visualize the data.
- Developed a python web application for visualizing the data: Visualized Focal Mechenism, to promote Earth science knowledge with web development skills.
- Used trained machine learning model (RED-PAN) to automatically detect micro earthquake event and use relocation methods to figure out relationship between earthquake events.
- Improved earthquake localization quality through non-linear and relative localization algorithms

LEADERSHIP

Campus Computer & Network Society at NCKU Jul 2018-Jul 2020
Director and Sysadmin

- Assisted in configuring, maintaining and upgrading a multi-node virtual machine cluster capable of running 60 to 80 virtual machines, using Proxmox Virtual Environment, an open-source and scalable solution for enterprise.
- Established and managed the public mirror for a Linux distribution in NCKU, offering high-speed download services for open-source software packages on campus, improving the effience of developing and deployment of services.
- Develop and Maintain Bullitin Board System (BBS) for the club: DreamBBS, serving NCKU students and alumni for the past 27 years, and presented a lecture at the SITCON 2018, and COSCUP 2023.
- Deployed GitHub Actions for the club's website and BBS, to automate the deployment process and testing procedure.

PROJECTS

Master Thesis: Investigating Crustal Structures Offshore Tainan through Regional Seismic Signals

- Utilized machine learning for waveform picking to identify seismic events with double the accuracy.
- Improved earthquake localization quality through non-linear and relative localization algorithms. Online seismic source mechanism determination.

Online Seismic Source Mechanism Determination

- GitHub Repository: sean0921/simplemeca-flask
- Developed a Python web service by combining Earth science knowledge with web development skills.
- Utilized containerization technology for deployment on the Heroku cloud platform, reducing on-site maintenance costs.