

Szu-Tu Ku

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Summary

Because of my academic background I started shell scripting, analyzing and building models in my junior year of college. With this knowledge, I kept automating my works in various fields and the benefits I acquired prompted me to join courses launched by Institute for Information Industry, udeMy and edX in order to enhance my skills of web/app development^[1], statistics and algorithm (please refer to “Reference” for relevant details). I enjoy challenges, embrace learning, and feel comfortable with accommodating myself to new surroundings.

Education

National Cheng Kung University	Tainan , Taiwan
Master of Physics	Sep. 2012 – June 2013
Bachelor of Physics	Sep. 2008 – June 2012
• Relevant Coursework: Numerical Analysis, Computational Materials Science	

Experiences

Marine National Park Headquarters, Ministry of the Interior	Penghu, Taiwan
Civil Servant	Nov. 2014 – Nov. 2015
• Established database of marine resources in South Penghu Marine National Park	
• Published seasonal coverage introducing culture or newly discovered species to public	
Kuroshio Ocean Education Foundation	Hualien, Taiwan
Interpreter	July. 2014 – Oct. 2014
• Guided whale watching cruises aiming to introduce concepts of marine conservation	
Nanomaterial and Low Temperature Physics Laboratory, Academia Sinica	Taipei, Taiwan
Research Assistant	Sep. 2013 – June 2014
• Reconstructed and operated ^3He - ^4He dilution refrigerator system	
• Developed official website ^[2]	
Advanced Nano and Quantum Matters Laboratory, NCKU	Tainan, Taiwan
Research Assistant	Aug. 2011 – June 2013
• Thesis: Magnetic Properties of Nd-pyrochlores. Supervisor: Prof. Dr. Lieh-Jeng Chang	
• Research on nanoconfinement effects by NMR. Supervisor: Prof. Dr. E. V. Charnaya	

Honors

- Elected to attend 16th JCNS Laboratory Course Neutron Scattering, Forschungszentrum Jülich, Germany, with sponsorship^[3] (Sep. 2012)
- Represented Dept. of Physics, NCKU, in academic speech contest, Sun Yat-Sen University, China (Nov. 2012)
- Placed 3rd in academic speech contest, Dept. of Physics, NCKU (without winner) (June 2012)
- Represented NCKU in student forum, Tianjin University, China (Oct. 2011)
- Represented NCKU in student forum, Kanazawa Institute of Technology, Japan (Oct. 2010)

Skills

- ☐ Languages: English (IELTS: 7/9), Mandarin
- ☐ Technical Skills: Java, Swift, MySQL, MongoDB, node.js, C++

References

1. In project “Running Pets” I designed and implemented the system of the website with Java, and was responsible for the iOS app (Swift 3.0).
 - Website: <https://youtu.be/ittTJPwfFhE>
 - iOS app: <https://youtu.be/V2tLYtO9qH0>
2. <http://www.phys.sinica.edu.tw/~lowtemp/e-index.htm>
3. The aim of JCNS Laboratory Course Neutron Scattering is to give a realistic insight into the experimental technique of neutron scattering and its scientific potential. http://www.fz-juelich.de/jcms/EN/Leistungen/ConferencesAndWorkshops/LabCourse/LabCourse2016/_node.html