Jay William Johnson

CONTACT

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ONLINE PRESENCE

- [LinkedIn Profile](https://goo.gl/NPPH4z) – (https://goo.gl/NPPH4z)
- [GitHub Account](https://github.com/Ripley6811) – (https://github.com/Ripley6811)

OBJECTIVE

Software engineer with in-depth knowledge of HPC and data-intensive programming.

WORK EXPERIENCE

Taimau Chemicals - Kaohsiung, Taiwan
Database and Applications Developer, 2012 – present
- Designed the company database and data management applications.
- Set up a Ubuntu-based MySQL server on local network.

Remote Sensing and Environment Monitoring Laboratory – Tainan, Taiwan
Research Assistant, 2010 – 2012
- Process satellite and other imagery data using ENVI/IDL and Python languages.
- Assisted with shipborne and AUV collection of coastal and reservoir water data.
- Researched use of Ladybug3 panoramic camera in deriving 3D data.

United States Navy
Petty Officer 2nd Class, 2004 – 2010
- Revised department task management system to reduce mission manning errors.
- Programmed tasking application to quickly assess who is working which task.
- Wrote a search package to increase the speed of accessing and analyzing archived data.

EDUCATION

Data Science Specialization
- Seven courses completed with verified certificates. Data analysis using R.

Johns Hopkins University
Online Non-Credit Courses

Front-end Web Development
- Training in responsive web design, testing, JavaScript, APIs and optimization.

Udacity Nanodegree Program
Online Non-Credit Training

Graduate Studies
- 26 credits focusing on satellite informatics, GIS and scientific computing.

National Cheng Kung University
Department of Earth Sciences

Continuing Education
- 25 credits in programming and math: Java, C#, statistics and discrete mathematics.

Hawai'i Pacific University
Department of Mathematics

B. A. Music
- Music theory and analysis.

University of California, Santa Barbara
Department of Music

COMPUTER SKILLS

- Python (NumPy)
- R statistical analysis
- JavaScript
- ENVI / IDL
- Java
- CFD and genetic algorithms
- MySQL, PostgreSQL
- Sails.js MVC (Node.js)

INTERESTS

Scientific computing, data-driven applications, eScience, HPC, CUDA, structure from motion