

# Zachary T. Ploskey

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## Technical Skills

**Programming Languages:** Python, PHP, Java, C, C++, SQL, HTML, JavaScript, CSS, SASS/SCSS, ReasonML, OCaml, Matlab/Octave

**Tools/Libraries:** Linux (Red Hat, Debian, Ubuntu, others), Git, SVN, MySQL, PostgreSQL, Apache, SciPy, NodeJS, Bucklescript, Docker

## Employment History

### Ploskey Technical

Software Engineer/Owner, June 2015–Present

Work with businesses and researchers to build custom software solutions. Develop and maintain custom software and offer support for open source web technologies, servers and databases to keep things running smoothly. Development primarily using PHP, Javascript, Node.js and Python. Open source projects:

[bs-puppeteer](#), [Cosmolab ChemDB](#), [Cosmogenic](#), [Experimental Beijing](#)

### University of Washington

Graduate Research/Teaching Assistant, Earth and Space Sciences, August 2009–August 2016

Developed [Cosmogenic](#), an open-source Python library for simulation of cosmogenic isotope production during landscape evolution and statistical inference from cosmogenic nuclide data. Ported the [CRONUS Calculator](#) from MATLAB/Matlab Web Server to Octave CGI. Taught lab sections. Awarded a Geological Society of America Graduate Student Research Grant (2010).

Research Assistant, Cosmogenic Nuclide Laboratory, Summer 2008–Summer 2009.

Redesigned the laboratory MySQL database and PHP web application, [ChemDB](#) using a Model View Controller web framework. Added new data entry forms, input sanitization, error handling and autocompletion. Integrated [ChemDB](#) with the [CRONUS Calculator](#). Chemically prepared rock samples for isotopic measurements.

Computer Support Technician, School of Oceanography, February 2007–October 2008.

Managed web, email, and backup servers running Linux and Windows Server. Provided computer and technical support.

### Pacific Northwest National Laboratory

Technical Intern, Marine Sciences Laboratory (Portland, OR), Summer 2006.

Data entry, processing and visualization. Developed data processing software in C#.NET.

## Education

PhD Student, Earth and Space Sciences, University of Washington, 2009–2016.

BS, Earth and Space Sciences, *with Distinction*, University of Washington, 2009.

BA, Anthropology, University of Washington, 2009.