

Joseph L. Sheedy

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Professional Experience

University of Washington Professional & Continuing Education, Seattle, WA

Instructor, 04/2013 – present

Part-time evening instructor for Python 300, the final course in a three part professional certification program

Velotron Heavy Industries, Seattle, WA

Owner / Developer, 08/2007 - present

Professional contracting umbrella. Projects have included:

- Developed a Windows Store application in Ember.js with a C# .NET backend process
- Numerical weather model output generation and analysis for the wind power industry
- Developed web services for delivery of geospatial data to user facing mapping tools
- Developed a distributed Python based infrastructure and code for geospatial data analysis
- Architected and developed the full stack of a commercially successful Ruby on Rails video streaming application
- Created and delivered lesson plans for software training in UNIX, Ruby, and Python
- Debugged and deployed a geospatial Plone/Django application for wildlife monitoring
- Provided maintenance services on a production ExpressionEngine site
- Architected, developed, and deployed a distributed telephone system to record stories for web presentation
- Developed a service oriented framework and UI in Ruby for the management of weather model runs
- Developed and shipped iPhone web interfaces for commercial hardware products
- Developed and maintained an ASP.NET MVC 3 + Oracle application for the energy industry
- Architected and developed a geospatial GeoDjango application for managing weather model runs
- Shipped an art project integrating projection, lighting, and sound hardware with Max/MSP, Unity3D, Ableton Live, Python, and node.js web services

OneOcean Corporation, Seattle, WA

Senior Developer, 06/2012 – 03/2014

Senior developer on a team which privately released several iterations of a distributed Django/Python application for extracting, managing, and presenting metadata from oceanographic and other types of data sets. Interfaced with proprietary systems and data formats, integrated cloud services, and developed several distributed task systems.

3TIER, Seattle, WA

Developer / Administrator, 05/2003 – 08/2007

Developed backend, frontend, and middleware products for the collection, analysis, and presentation of meteorological and hydrological observations and forecast information. Managed a network including large clusters running weather models. Deployed services for bug tracking, version control, and CMS. Introduced industry standard development practices

Chronotechnic LLC, Seattle, WA

Java developer, 08/2002 – 05/2003

Java development and quality assurance testing for bioinformatics products. Developed front-end and business logic in Swing and scripted hardware controls.

OEone, Gatineau, Quebec

IT Manager / Developer, 02/2001 – 07/2002

Managed infrastructure and developed products. Developed user services, packaged software, version control management, MySQL administration. Developed an automated build system.

Arctic Fox Technology, Fairbanks, AK

President, Consultant, 04/2000 – 02/2001

Founded and provided leadership in technical and business aspects of a cooperative corporation. Developed tools and websites. Onsite support for businesses. Chief Scientist aboard research cruises for the Digital Observer Project.

Arctic Region Supercomputing Center, Fairbanks, AK

Research Assistant, 02/2000 – 07/2000

Geophysical Institute, Fairbanks, AK

Research Assistant, 08/1998 – 05/2000

Collected and analyzed radiation data from the Antarctic. Chief Scientist aboard the *Polar Star* in 2000. Debugged electronics, managed data acquisition infrastructure, and engineered software. Prepared publications and presented the results.

New Mexico Tech, Socorro, NM

Research Technician, 06/1998 – 08/1998, 06/1997 – 09/1997

Operated and maintained a local area network at a high altitude lightning research laboratory. Collected, managed, and analyzed lightning and meteorologic data.

University of Washington, Dept. of Atmospheric Sciences, Seattle, WA

Programming Assistant, 01/1998 – 06/1998

Developed and executed a meteorological model in C on a SunOS platform

Research Assistant, 03/1997 – 06/1997

Executed numerical weather models with scripting, FORTRAN, and NCAR graphics

Web Developer, 11/1996 – 03/1997

University of Washington, Seattle, WA

Computer Lab Assistant, 11/1995 – 12/1996

Formal Education

2000: M.S., University of Alaska, Fairbanks, Atmospheric Science

1998: B.S., University of Washington, Atmospheric Science

1998: B.S., University of Washington, Physics