

Joseph L. Sheedy

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My career in web technologies and scientific computing spans 14 years. A portfolio of web development projects is available at <http://velotronheavyindustries.com/portfolio>

Professional Experience:

Director, Velotron Heavy Industries, Seattle, WA **08/2007 - present**

Numerical weather model output generation and analysis. Developed web services for delivery of geospatial data to user facing mapping tools. Architected and developed the full stack of a commercially successful Ruby on Rails application. Developed and delivered lesson plans for software training in UNIX, Ruby, and Python. Architected, developed, and deployed a telephone system to record caller stories for web presentation. Developed a service oriented framework and user interface for the management of weather model runs. Developed and shipped iPhone applications for commercial products. Developing an art project integrating Max/MSP, Unity3D, Javascript, Ableton Live, and web services.

Developer / Administrator, 3TIER, Seattle, WA **5/2003 - 8/2007**

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

Java Developer, Chronotechnic LLC, Seattle, WA **8/2002 - 5/2003**

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

IT Manager / Developer, OEone, Gatineau, Quebec **2/2001 - 7/2002**

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

President, Consultant, Arctic Fox Technology, Fairbanks, AK **4/2000 - 2/2001**

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

Research Assistant, Arctic Region Supercomputing Center, Fairbanks, AK **2/2000 - 7/2000**

Research Assistant, Geophysical Institute, Fairbanks, AK **8/1998 - 5/2000**

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.

Research Technician, New Mexico Tech, Socorro, NM **6/1998-8/1998, 6/1997-9/1997**

Operated and maintained a network at a high altitude lightning research laboratory. Collected, managed, and analyzed lightning and meteorologic data. Investigated the chemical products of corona discharge.

Programming Assistant, University of Washington, Seattle, WA **1/1998 - 6/1998**

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

Research Assistant, University of Washington, Seattle, WA **3/1997 - 6/1997**

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

Web Developer, University of Washington atmospheric sciences, Seattle, WA **11/1996 - 3/1997**

Computer Lab Assistant, University of Washington, Seattle, WA **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