

# Paul Nathan

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**Summary** I am a proven software engineer, team mentor, and computer science researcher. I have written software professionally since 2004 for both academia and industry; my hobby software-writing experience extends into the late 90s.

**Skills and Abilities**  
**Software Development:** Full Lifecycle  
**Computer Languages:** C++, Common Lisp, Rust, Scala  
**Researcher:** cryptography, compilers, embedded systems

**Education** **University of Idaho** 2012  
Master of Science in Computer Science

**University of Idaho** 2006  
Bachelor of Science in Computer Science  
*Minor in Mathematics*

## Professional Experience

### *Industry*

**Software Engineer**  
Seattle, WA  
*Highlights*

**The Climate Corporation**  
March 2014 - present

**Human Skills & Leadership** Mentored junior developers, performed the usual code & architecture reviews, collaborated with data science, engineering and science team members to improve processes and software.

### *Teams*

*Member of the Weather team* Oct 2016 - present. Maintained and added to existing climatological ingest system in Python, developed new ingest framework and architecture in Scala.

*Member of the SRE team* March 2014 - Oct 2016. On pager, maintained the reliability and security of our AWS EC2 fleet. Became reasonably expert in many areas of AWS. Specialized in build, identity, and security.

**Continuous Deployment** Developed tools and process to allow source-to-production deployments. Includes managing Jenkins, Atlassian Stash, and consulting on git. Recent project: software tracability tool for deployments from git to production - <https://github.com/TheClimateCorporation/history-server>.

**Identity Management** Developed tools and processes to ensure correct onboarding, offboarding, and user management within the engineering and science organizations. Recent project: developed secret storage system using AWS Key Management.

**Software Developer**

Bellingham, WA

**Logos Bible Software**

June 2013 - Feb 2014

**OSX GUI Developer** Developed new features and maintained OSX Mono application with >3MLoC of C#, C++, and Objective-C code

**Data Scientist** Studied customer database and drew conclusions to increase sales against over 2 million customer records. Taught myself non-parametric statistics methods and used PostgreSQL, R, and other data analysis tools.

**Software Tools Engineer**

Associate Software Engineer

Pullman, WA

**Schweitzer Engineering Laboratories**

June 2010 - May 2013

I collaborated with R&D and my team to build, maintain, and train the use of software tools for R&D's use. Within that sphere of responsibility, I focused on developing tools for Mercurial and Linux, then supporting the use of these tools by over 100 different Linux users.

*Highlights*

**Guestrepo** Designed, led, released, and maintained a Mercurial extension, Guestrepo (<https://bitbucket.org/selinc/guestrepo>). This tool significantly enhances SEL (and other) enterprise hg workflows.

**Linux Build System** Transitioned a Linux build-system from Bash to Python and ClearCase to Mercurial, adding new features, writing documentation, and significantly improving maintainability.

**DevOps** Lead the drive to modern devops: Jenkins CI to replace hand-coded build jobs; developed hand-notification system to watch our services. Responsible for source control strategies.

*Major Areas*

**Human Skills & Leadership** Major role in hiring interns and full-time employees for the team. Mentor interns; provide guidance for junior engineers. Created vision for our server infrastructure in collaboration with other engineers and work on implementing same.

**Mercurial transition project** Support and train developers in the use of Mercurial, along with porting existing repositories and tools from Clearcase to Mercurial. Responsibilities include on-call support for Mercurial and internal version control tools.

**Build systems** Lead the project for a custom Linux build system for our Linux product lines. Install, maintain, and evangelize using a CI system as a build controller. Assist in other build tasks as needed.

**DevOps** Maintained multiple servers; these include static analysis tools, RabbitMQ, notification systems, and Debian company-specific repository.

**Firmware Tester** Designed and built suites of automatic tests to validate communications protocols for the SEL-3530 embedded system.

**Software Engineering Intern**

Pullman, WA

**Schweitzer Engineering Laboratories**

March 2009 - June 2010

## **Research**

**Master's Student**  
Moscow, Idaho

**University of Idaho**  
Spring 2008-Fall 2012

Developed research for debugging interrelationship of embedded multicore processors and code executing on them.

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