Johan Herland

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Summary of Strengths

- Passion for designing and implementing elegant and useful (software) solutions to challenging problems.
- Experience in distributed software development and C/C++/Python programming from Cisco, Opera and open source projects.
- Good knowledge of web standards from developing web browsers, and prior experience as a web developer.
- Excellent communication skills from studying abroad and working in multilingual environments.
- Diligent and responsible in performing tasks. High attention to detail.

Relevant Experience

Software Engineer at Cisco Systems Norway (formerly Tandberg)　　October 2011 - Present

- Platform developer in Lysaker Software team, part of the Collaboration Technology Group.
- Developing next-generation TelePresence video conferencing endpoints.
- Git expert, administrator, trainer, etc.

Contributor to the open source Git project　　May 2007 - Present

- Git is currently the most popular distributed version control system.
- Primary author of the *git notes* feature for attaching useful metadata to Git objects.
- Active participant in the Git community.

Core Developer at Opera Software ASA　　September 2007 – September 2011

- Responsible for central infrastructure and utilities, making them lightweight, efficient, and portable to a wide variety of platforms.
- Maintaining core components for legacy encoding support, Unicode funtionality, selftest infrastructure, etc.
- Coordinated company-wide version control transition from CVS to Git.

Unix Developer at Opera Software ASA　　July 2004 – September 2007

- Developing and porting Opera to embedded Unix/Linux-based platforms.
- Implementing product-specific features and resolving bugs.
- Working in customer-oriented product teams with high level of cooperation with the customer and tight delivery deadlines.

Relevant Education

Bachelor of Science with First Class Honours　　2000 – 2004

- Queen's University, Kingston, Ontario, Canada.
- Computer Engineering, Software Option.
- Received Dean's Award (above 80% grade average) in 2002 and 2003. Final standing: 84% grade average.
- Focus on software architecture, software development and real-time systems.
- 4-year intensive program with a final-year thesis project: *Robot Pool "Straight-Shot" Planner and Executor*:
  - Part of a larger endeavour in robotics and machine vision on creating a pool-playing robot.
  - Developed two calibration processes for Pool Robot in C/C++.
  - *http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=1389787*

Relevant Skills

- **Natural Languages:** Norwegian (native). English (fluent).
- **Programming Languages:**
  - Primary languages: C, C++, Python, Bourne shell.
  - Secondary languages: Perl, Java, Javascript.
- **Other Languages:** HTML, CSS, XML, SQL, etc.
- **Operating Systems:**
  - Advanced Linux/UNIX user since 1996 (Arch, Debian, Ubuntu, etc.).
  - Some experience from Mac OS X and Microsoft Windows.
- **Methodologies/Practices:** Agile Development, Design Patterns.

Other Experience

Website development and administration for various customers   June 1998 – January 2008
- Administering web and mail services for multiple customers and domains. Creating web page layout and programming web applications.
- Since August 2004 these activities were organized under a sole proprietorship called Herland Software.

Research Assistant at Queen's University   April 2003 – August 2003
- Department of Electrical and Computer Engineering.
- Developed software for a research project in robotics and machine vision (Pool Robot).
- Low-level programming in C and higher level programming in C++.

Teaching Assistant at Queen's University   January 2003 – April 2003
- Assisted undergraduate students on laboratory assignments in a course on Data Structures and Algorithms.

Network Administrator at Sci'44 Co-op Student Housing Inc.   September 2002 – April 2003
- Part-time administration of a Windows 2000 server and 6 Windows 2000 workstations at the main office.

Bank Teller at Sparebanken Sogn og Fjordane, Balestrand   June 2001 – August 2001
- Worked as front desk teller interacting with customers on a daily basis; responsible for foreign exchange.

Other Education

Viken Music College, Gjøvik, Norway   1999 – 2000
- Field of concentration: Jazz/Pop/Rock – Jazz Piano.

Sygna High School, Balestrand, Norway   1996 – 1999
- Fields of concentration: Mathematics, Physics, Chemistry and English.

Other Skills and Interests
- **Driver's License:** Norwegian Class B.
- **Professional Memberships:**
  - **IEEE**, since 2001.
  - **NITO** (Norwegian Society of Engineers and Technologists), since 2005.
- **Hobbies:**
  - **Music:** Jazz Piano, classical, jazz and rock music.
  - **Audio/Video Technologies:** Hi-fi systems, Home theatre, PA systems.
  - **Photography:** Digital SLR Cameras, etc.

Personal Information
- **Birthday:** June 24th, 1980.
- **Marital Status:** Married.
- **Citizenship:** Norwegian.