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 INFORMATION Calgary, Alberta *E-mail:* kneufeld@burgundywall.com
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EDUCATION University of Manitoba
 B.Sc. - Computer Science, 1997

Languages
 English & French

COMPUTER Operating Systems
 KNOWLEDGE Linux, OS X, Windows

Programming Languages
 C++, Python, Javascript, jQuery, HTML, CSS, Shell/Bash, RegExs, SQL, PHP, Perl

Applications, Frameworks, Services & Protocols
 STL, MFC, SIP, SSH, DNS (bind), HTTP (apache), Postfix, DHCP
 Visual Studio, SER, Asterisk, VLans, Django, Mercurial, git

Databases
 mySQL, Firebird, MS Access

CAREER Refactored source code (well over 1 million lines) to allow proper branching.
 HIGHLIGHTS Determined bottlenecks in build process that increased developer productivity by approx 20%.
 Brought in modern best practices and libraries such as an internal wiki and Boost.
 Consulted in England to help set up an e-commerce site.
 Traveled extensively in US installing networks in hotels.
 First person from Guest-Tek to do an install in Europe.
 Was taken out of retirement to rescue important account in Caribbean.
 Set up (and wrote large pieces of) a network management system with over 12,000 nodes.
 Prepared and then taught several internal training classes.
 Designed and developed several databases and their user interfaces.
 Designed and implemented several internal and external websites.
 Created six homed Linux corporate firewall that passed SOX audit.
 Wrote open source PHP software package PCacher (subsequently rewritten using Django).
 Was the CTO for a web hosting company with 100 customers.

PROFESSIONAL Software Development C/C++ 15+ years
 EXPERIENCE Python 10+ years

I've developed several different types of software packages over the years; an internal surveying application and database, an automated test framework with web reports and most recently radio software on a custom embedded Linux platform. I probably learned the most when I was working with an exceptional team on a SIP back to back user agent. The largest product I've delivered was a risk & sensitivity (Monte Carlo) engine to drive oil and gas reservoir models that I single handedly designed and developed. It was the largest new feature in that years product.

System Administration Linux 15+ years
 Windows 15+ years

I've run a Linux server for around 15 years, and Linux has been my desktop OS of choice for much of that. I've also administered several corporate level servers such as a postfix email server and the web servers for a web hosting company.

Quality Assurance

2 $\frac{1}{2}$ years

Patching SIPp, designing and configuring the lab network and routers, creating test driven web pages, making test plans, and working with developers was an average day.

Database Design

mySQL 1+ year
Access 2 years

I put myself through university by designing databases and then building user interfaces for them. The largest was a surveying application that could read in raw data from instruments and then calculate and plot 3D slopes, areas, and other relevant functions that the surveyors required.

Web Design

Django
jQuery

All my web sites have been done by hand and not with a package like FrontPage. I've used Smarty template engine with a smattering of DHTML but have recently been creating or rewriting several web apps using Django and jQuery. Converting static websites into scalable, dynamic, database driven applications with rich json api's is really a game changer.

WORK
HISTORY

Contracting

Subnet Solutions Inc
General Dynamics Canada
System Administrator
Web Designer
Tech Support

Fekete Associates Inc

Senior Software Developer

Jasomi/Ditech Networks

Software Developer
Quality Assurance
System Administrator

Guest-Tek

Software Developer
System Administrator
Network Installer

Verity

Software Developer
Tech Support

EXTRA
CURRICULAR

I love to travel. I've backpacked and toured through all of Western Europe and lots of Eastern Europe. I've also toured the UK, Scandinavia (including Iceland) and Central America. I hope my next destination will be either Thailand or Australia.

SUMMARY

I am interested in positions that will contribute to the bottom line of the company while progressing in my chosen field. I'm a quick study and during my varied experience I've worked in almost every discipline of computer science. I have a voracious curiosity, and I've found that my constant reading of technical blogs and papers has given me an extremely broad knowledge base to draw upon. This often allows me to offer insights and potential solutions to most technical problems.

I also understand that all businesses are there to make money. As such, my job is to help my customers succeed and provide them with the best products and services that I can.