

Curriculum Vitae for Matt Brown

Linux and Network Administrator

Personal Data

Full Name: Matthew Brown
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Career Objectives

- To lead the design, implementation and management of key Internet technologies
- To broaden my experience in a role outside of New Zealand
- To be well respected for my technical abilities and personality by friends and colleagues
- To continue developing my leadership and technical skills

Key Technical Abilities

- TCP/IP Design, Implementation and Maintenance on a LAN and WAN scale
- IP Routing using OSPF and BGP
- Linux server administration primarily using the Debian distribution
- Administration of common Linux server software such as Apache (web), Exim (mail), MySQL and PostgreSQL (database) and Squid (web cache / proxy)
- Programming languages: Python, C/C++, Bash Scripting, Ruby and PHP
- Wireless Networking using 802.11 and related technologies

Personal Profile

I graduated from the University of Waikato in 2004 with a Bachelor of Computing and Mathematical Sciences (BCMS) with First Class Honours. My honours research project involved the implementation of a wireless mesh network for broadband Internet delivery in rural areas. I maintained a high level of achievement throughout my academic studies and received two scholarships in recognition of my academic success.

I am highly motivated and enjoy working in an entrepreneurial business environment. I enjoy moving quickly to take advantage of new opportunities and technologies. I have excellent critical thinking, planning and problem solving abilities and I enjoy working through challenging problems to reach an appropriate solution. I learn quickly, work well in stressful situations and have no problem working to deadlines.

I am an experienced team worker and enjoy taking the leadership role when an opportunity is presented. I have excellent written and verbal communication skills and I understand the importance of utilising a range of communication techniques to listen effectively and convey complex ideas in a manner that is easy to understand.

Professional Experience

Apr 2007 - Present : **Site Reliability Engineer**
Google, Dublin, Ireland

I work in the Site Reliability Engineering team for Google looking after a wide range of systems and software. Further information on this role is available on request.

Oct 2004 - Mar 2007 : **Network Administrator**
WAND Network Research Group, University of Waikato, Hamilton, New Zealand

My key responsibility in this role was to maintain several large community networks with over 100 802.11 wireless repeaters and end-clients. I accomplished this by leading the design and development of a configuration system and associated system infrastructure. This system automates common network administration tasks and allows the day to day operation of the network to be handled by community volunteers.

Key Achievements:

- Designed, implemented and maintained TCP/IP networks providing reliable Internet access using OSPF and BGP routing protocols
- Developed a custom Linux distribution derived from Debian for use on low power embedded wireless repeaters with limited resources
- Maintained and secured Debian Linux servers running many common ISP services
- Led a team consisting of two Junior Developers
- Deployed networks to some of the remotest schools in New Zealand, the rural Transkei in South Africa and Pacific Islands

Oct 2004 - Jan 2006 : **Research Analyst - 50% role concurrent with above position**
MediaLab Limited, Wellington, New Zealand

For the duration of this employment 50% of my time was contracted to The University of Waikato in the role described above. In this position I designed and undertook network measurement projects under contract for the CTO of a leading New Zealand telecommunications company. My responsibilities also included preparing submissions and leading the companies involvement in industry regulation activities with the Commerce Commission. This role allowed me to further develop my project management skills and gave me valuable experience in the modern telecommunications environment.

Nov 2001 - Sep 2004 : **Student Research Assistant**
WAND Network Research Group, University of Waikato, Hamilton, New Zealand

During my studies I was employed part time by a wireless research project (CRCnet). In this role I was the primary administrator of the CRCnet wireless networks, both in the Waikato region and in other areas of the country. My competence and ability to work as part of a team in this job lead to permanent employment with the group when I completed my degree.

2001 - 2004 : **Software Development Consulting**
Holistic Information Services Ltd.

I completed several contracts for Holistic Information Services Ltd working as part of a team during software migration projects for large New Zealand energy companies. I was involved in the design, implementation and testing of C/C++ software integrating with the Maximo Asset Management application and Oracle databases.

Educational Achievements

- 2001 - 2004 : University of Waikato (Hamilton, New Zealand)
Bachelor of Computing and Mathematical Sciences (First Class Honours)
- Full Academic Transcript available on request Recipient of two academic scholarships
- 1997 - 2000 : Hillcrest High School (Hamilton, New Zealand)
Completed 6 Form Certificate and School Certificate
Upon receipt of a scholarship I started university without completing a Bursary year.

Professional Affiliations

Golden Key International Honours Society
New Zealand Open Source Society
Waikato Linux Users Group
Debian Linux Project - Full Developer (Username: mattb)
WAND Network Research Group - Waikato University

I am an active participant in the global open source software community and regularly contribute to a range of projects including Debian, GNOME and the madwifi kernel drivers.

References

Dr. Murray Pearson

Senior Lecturer
Computer Science Department
University of Waikato

Contact details available on request.

Phil Shepherd

Chief Executive Officer
MediaLab Ltd.

Contact details available on request.