

Matthew Caron

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Summary:

Following my education and work experience at the University Of Rhode Island, I have held a variety of positions at several companies in diverse industries. This has afforded me a breadth of experience in different fields.

I am very familiar with various Unix and Unix-like operating systems (principally Solaris and various flavors GNU/Linux), as well as some older versions of Windows. My experience is wide and varied, encompassing many aspects of system acquisition, integration, maintenance, programming, and deployment. I have experience with firmware and embedded systems development, real time motor control, USB and Ethernet.

Education:

University Of Rhode Island, Kingston, RI - May 2002

Bachelor of Science in Computer Engineering

Overall GPA: 3.30/4.0, Core GPA: 3.34/4.0, Dean's List, Centennial Scholarship

Experience:

Sixnet, Ballston Lake, NY - November, 2008 - present.

Build Engineer

- Responsible for maintaining and improving automated build systems including cross compilation for firmware and builds on multiple platforms.
- Developed automated unit and regression tests.
- Performed Trac modifications (plugins, custom code) to optimize for our needs and work flow.
- Deployed virtualization systems to provide on-demand system images for testing and development.
- General engineering-focused IT support and assistance.

IMT Services Corporation, Inc., Warwick, RI - October, 2005 - November, 2008

Developer & Systems Administrator

- Wrote and maintained web code, including Perl, PHP, SQL, HTML, CSS, JavaScript and SOAP.

- Maintained existing servers (Suns running Solaris), including hardware replacement, tape backups, system maintenance, application upgrades, etc.
- Wrote specifications and recommendations for purchase of new servers and systems, including planning and executing deployment.
- Worked on critical infrastructure redundancy to ensure maximum uptime in the data-center.

Integrated Solutions, Inc., Phoenixville, PA - November, 2004 - October, 2005

Developer & Technical Writer

- Developed technical documentation specification.
- Wrote various technical documentation.
- Developed various Web services and servers (daemons) for clients.

Atlantek, Inc./Zebra-Atlantek, Inc., Wakefield, RI - May 2002 - November 2004

Driver Development Manager (July 2003 - November 2004)

- Proposed, scheduled and implemented a major revision/rewrite of core product drivers.
- Managed a team of developer, utilizing modern programming practices: object oriented design, code ownership and peer review.

Printer Firmware Developer (Dec 2002 - July 2003)

- Responsible for development of embedded firmware applications on various Motorola (Freescale) processors.
- Developed firmware interacting with sensors, motors, and heaters, as well as USB and Ethernet interface firmware/driver.

Printer Driver Developer (May 2002 - Dec 2002)

- Responsible for developing, testing and troubleshooting custom printer drivers for photo ID printers.

URI Department Of Electrical and Computer Engineering,

Kingston, RI - Sept 1999 - May 2002

Systems Administrator (Student Employee)

- Responsible for support of computing systems, including end user support and service calls.

- Responsible for deployment and maintenance of Windows NT workstations, Sun (Solaris) workstations and servers, Linux workstations as well as legacy systems (such as serial terminals), including backup and archival.
- Wrote custom software to facilitate administrative tasks and security monitoring.
- Deployed/maintained web servers (Apache), secure web servers (apache_ssl), DNS (bind), FTP (wu-ftp), database servers (PostgreSQL), Mail (POP3, IMAP, Sendmail), NIS/NIS+, NFS, SaMBa, SSH, TCP wrappers, and many other services including custom written site-specific software and daemons.
- Experienced in security procedures, monitoring for network probing/attacks, hardening systems against intruders, and best-practice security methods.

Other Experience:

URI Free Software Society, Kingston, RI 2001-2003

Founded and served as President until graduation.

- Lectured on various topics including Open Source/Free Software, system security, and networking.
- Managed financial and political issues including gaining recognition and acquiring an operating budget.
- Advocated the use of Open Source/Free Software within the university community as a lower-cost, more secure alternative and assisted new users with installation and configuration.

Gnu/Linux (RedHat, Mandrake, Knoppix, Debian, Gentoo, Ubuntu), HTML, T_EX, L^AT_EX, VNC, Emacs, MS-DOS, MS Windows 3.1/9X/2000/NT/XP/2003, network setup and configuration, C, C++, C#, Mono/.NET, Perl, BASH, TCSH, Solaris, PHP, SQL.

Interests:

Independent computer research/programming projects, reading, and gaming.

Personal projects include:

- Security experiments, system hardening, etc.
- Experimentation and evaluation of various Linux distributions, and various Free and Open Source software systems.
- Participation in the Ubuntu Linux bug reporting and documentation systems.
- Participation various Linux-related LiveJournal (Weblog) communities.
- Working on various gaming related applications.

References:

Available upon request.