

Shaikh M Shahriar

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EDUCATION AND TRAINING **Santa Clara University, Santa Clara, CA**
Master of Science in Computer Engineering, *June 2004*

Santa Clara University, Santa Clara, CA
Bachelor of Science in Computer Engineering, *June 2002*

TECHNICAL SKILLS

- **Languages:** C, C++, Java (J2SE 1.4, J2EE 1.3.1, EJB 1.1 and Swing), Perl shell scripting; strong background in object oriented design principles using C++ and Java.
- **Tools:** ARM GCC tool-chains, CM Synergy 6.2, CVS, makefiles, Apache Ant, and UML.
- **Operating System:** Windows 9x, 2000, XP, WinCE.net 4.2, Red Hat Linux 9.0, and Mac OS X.
- **Web technologies:** Perl CGI, JSP, Java Servlets, XML(JAXP, DOM), and JavaScript.
- **Database:** Oracle 8i (PL/SQL), MySQL and Microsoft Access.
- **Web design:** Macromedia Flash 5, Macromedia Dreamweaver MX, Adobe Photoshop 7, and Microsoft FrontPage XP.
- **Hardware Design Skills:** Design, simulation and testing of digital circuits using Xilinx FPGA, and Mentor Graphics Design Architect.

EXPERIENCE
Oct 2004 - Present

Philips Semiconductors, San Jose, CA

Software Engineer, Wireless LAN Connectivity

- Responsible for development of network device drivers for **IEEE 802.11 b** and **g Wireless LAN** chipsets for **Intel XScale PXA27x** and **TI OMAP** platforms running the **Linux Kernel version 2.4.19** and to ensure full compliance with **Linux Wireless Extensions v16**.
- Extensive use of **C** and **ARM assembly** language in development and debugging of the host driver and target firmware communicating through **Serial Peripheral Interface (SPI)**.
- Responsible for design and implementation of International Roaming (**802.11 d**) feature.
- Responsible for integrating **802.11i(WPA/WPA2 with TKIP and CCMP (AES))** support by integrating open-source WPA Supplicant with the host driver and target firmware.
- Simultaneously working on writing configuration utilities on **Linux (gcc with ARM tools chains)**,
- Debugging and flashing using **JTAG** interface and **XDB** tools.
- Advanced debugging and analyzing of **802.11** packets using **Wild Packets Airopeek** wireless sniffer to ensure compatibility of IEEE standards and major Access Points.
- Develop automated regression test scripts and reporting tools using **Perl 5.6** shell scripts.
- Assisting in developing software responsible for production time testing and configuration, such as transmit power calibration and correction.
- Responsible for supporting customers in porting host driver to specific platforms.

May 2004 – Exercisedaily.org, San Jose, CA

Sep 2004 *Web Developer*

- Successfully designed, developed and deployed online health and fitness magazine with direct realtime link to dmoz.org open directory. Extensively used **Perl 5.8.1**, **JavaScript** and **MySQL 4.0** for developing dynamic user interface to insert, modify and display research articles in the database.
- Tightly integrated Babel fish translation service to provide real-time translation of the articles into 9 different languages.

July 2002 – Kazanah, San Jose, CA

November 2003 *Web Software Architect*

- Successfully designed and deployed an online money transfer web application that is being used to serve customers worldwide in 20 different countries.
- Developed the **e-commerce** enabled site in **Perl 5.6.0**, **JavaScript** and **MySQL 4.0**.
- Was responsible for design and implementation of the security using **Sessions**, **SSL 2.0** encryption and **MySQL data encryption** techniques.

October 2000 – Biozak Inc, San Jose, CA

April 2002 *Database Administrator and Web Developer*

- Active role in the design and development of Internet based search engines and databases using **MySQL** and **Perl DBI** database development utilities.
- Substantial use of **Perl** programming language in the development of parsing utilities and automated web fetchers in **Red Hat Linux 6.2** environment.
- Actively develop automated **ETL** and **data migration** tools.

PROJECTS **Masters Research Paper:** A Simple Image Search Engine - SImSearch

Senior Design Project: Online student application and registration system for Santa Clara University using **JSP**, **XML (DOM)** and **Microsoft Access (JDBC)**.

Project Lead: Developed Operating System Shell in **C++** and **Quick Basic**.

Project Lead: Designed and implemented a Traffic Light Controller system using programming of 8085 microprocessor in **Assembly** and **C**.

Project Lead: Designed and developed multiplayer arcade game in **C++** and **QBasic**.

Project Lead: Designed and deployed Online Bookstore web application using **Enterprise Java Beans (EJB 1.1)** and **Cloudscape** database, using **J2EE** reference implementation.