

## **ALLAN CLARK**

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### **SENIOR SOFTWARE ENGINEER** **Architecture Design • Team Leadership • Coding**

Seasoned and successful software development professional with over 18 years of experience in spearheading diverse technical projects, developing outstanding software, and improving technical processes for worldwide customers. Demonstrated track record of adapting existing technology to bridge technology gaps and enhance administration efficiency. Proven team leader committed to facilitating cross-cultural communication, optimizing resources, and delivering projects on-time. Conversational French and Mandarin. Areas of expertise:

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Software/Systems Architecture • Team Leadership • Architecture Design • Coding  
Cross-Cultural Communication • Implementation Architecture • Project Management  
Change Management • System Administration • Telephony/Telecommunications Products • Replication  
Root Cause Analysis • Hardware Bring-Up • De-Bugging

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### **PROFESSIONAL EXPERIENCE**

#### **PHORM, INC., New York, New York; London, England • 2007-2008**

A global provider of online advertising channels based on users' browsing history.

#### **Hardware Consultant / Operations Special Projects**

Executed diverse technical projects, involving web server migrations, LDAP synchronization, and product evaluations. Assessed project requirements and allocated tasks to team members in firewall/security, networking, system administration, QA, NOC monitoring, and validation. Performed scripting, C/C++ coding, networking protocols, and de-bugging; oversaw IOS, ScreenOS, MySQL, LDAP, DNS, NTP, RHN Satellite, PHP, and SVN. Federated global config with custom LDAP backends. Facilitated work performance across time zones, including DNS/LDAP change and web content staging/merge process.

#### **Major Accomplishments:**

- Accelerated installation and reduced errors by converting LDAP, SSL certificates, MTA configuration, and installation servers to one-step installation with dependency tracking.
- Enhanced efficiency and eliminated content collisions by converting web content to version-controlled backing.
- Strengthened problem-detection by assessing NOC and server-update tools and installing base NOC service monitor.
- Improved quality via data center service checks by developing self-tests.

#### **MOTOROLA, Beijing, China; Libertyville, Illinois • 2006-2007**

A global manufacturer of consumer electronics.

#### **Principal Architect (Contract Through CIENet)**

Spearheaded architecture development for databasing element of Linux-based mobile phones, involving changes to underlying technology; ensured consistent device performance and secured buy-in from key stakeholders for usage and support of interoperable platform. Led implementation architecture for multiple components; translated changes from senior architects for component engineers and architects to create interoperable product codebase. Evaluated user problems and targeted excessive memory copies, weak code, selfish resource usage, runcontrol, NFS-booting, and other causes. Served as Lead Engineer for hardware bring-up for 2 new mobile devices. Resolved problems with HW/SW, manufacturing, and design and developed solutions for next manufacturing phase.

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*Motorola, continued...*

**Major Accomplishments:**

- Enabled collaboration among Samsung, NEC, NTT DoCoMo, and Motorola to produce, test, and maintain single database technology by serving as LiMo Foundation's Working Group Lead.
- Earned reputation for effective communication among China- and North America-based stakeholders; gained knowledge of Chinese language, including idioms and colloquialisms.
- Introduced support for SQL database to handset
- tuned thread creation to reduce pre-allocated core

**TROLLTECH, Beijing, China • 2005**

A producer of C++ system libraries for KDE desktop and Linux-based mobile devices.

**Senior Systems Architect (Contract)**

Played key role in delivering alpha-release initial development of dual-screen dual-framebuffer mobile phone. Contributed to project by standardizing development environment and resolving issues with FreeSWAN secure WAN. Liaised with client to define design and provide confirmed-functional sample code and alpha-prereleases.

- Earned reputation as OS/kernel-level system SME
- speaker at LinuxWorld.

**CELLON / CECWIRELESS, LeMans, France; Hong Kong, Shenzhen, and Beijing, China • 2004-2005**

A multinational mobile device designer.

**Systems Architect – Advanced System Design Group**

Managed architecture for feature enhancement implementations and defect resolutions for GSM smartphones. Developed data flows and ensured optimal component interaction regarding memory footprint, response time, and clean code. Coached engineers in algorithm improvement. Resolved problems on-site with outsourced Korean supplier.

**Major Accomplishments:**

- Resolved licensing issues by migrating data store from BDB to SQLite.
- Eliminated potential problems with IP portfolio infringement by removing questionable source code from Linux kernel; ensured outstanding OS without product re-test, eliminating 6 weeks of delay.
- Enhanced consistency and quality of deliverables by improving build process.
- Served as company representative in LiPS Consortium.

**THE SANTA CRUZ OPERATION (SCO), Santa Cruz, California; Murray Hill, New Jersey • 1998-2004**

SCO Unix is a back-office platform for major retail clients. SCO Professional Services provides Unix install customization, custom kernel modules, and upgrade support.

**Unix Senior Consultant / Smallfoot Project Leader**

Managed engagements for SCO Professional Services by assessing client needs, recommending solutions, and creating estimates and customization proposals. Harnessed consulting team accomplishments to enhance service offerings. Contributed to sales process through service offering discussions and scoping. Performed C, C++, and ksh coding. Played instrumental role in Smallfoot project, a technique for codifying tricks and workarounds for embedding, with portable configuration file; Smallfoot served as delivery driver for IBM Retail-Oriented Linux Offering, \$1M initial pipeline during beta.

**Major Accomplishments:**

- Played key role in initial configuration of Smallfoot Toolkit by scoping Linux Inspection Tool for Linux embedding.

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*SCO, Major Accomplishments, continued...*

- Contributed to establishing \$1M pipeline by delivering Beta of Smallfoot Toolkit.
- Created mass-install kits to enable installation of 4.9K servers by non-technical staff (<10 exceptions) and installation of 2.5K+ sites (<1% exceptions).
- Leveraged C++, CORBA, and Java to deliver CORBA port to UnixWare by IONA Technologies.
- Saved client \$2M via touchless system re-install, involving 2.7K servers
- Developed custom Linux for large retailer, encompassing 100K devices, custom TCP stack, 47 hardware types, and 1 media image.
- Won 1999 Employee of the Year Award (out of 1200 employees).

**NOTE:** Career history also includes role as Independent Unix/Linux Consultant at Telephony company and Lieutenant in the Canadian Army.

### **EDUCATION / PROFESSIONAL DEVELOPMENT**

#### **Master of Science in Computer Science**

Queens University, Kingston, Ontario

#### **Bachelor of Engineering in Electrical Engineering (Computer Specialty)**

Royal Military College of Canada, Kingston, Ontario

National Command and Control Information Systems (NCCIS)

Six Sigma

### **SELECTED TECHNICAL SKILLS**

Test-Driven Development (TDD) • UNIX • Linux • C • C++ • bash/ksh • TCP/IP • SQL92  
RPC • XML • SQLite • NIS • DNS • NTP • LDAP • JavaScript • Embedded-Linux (ARM, MIPS) • SSO  
RPM • RHN Satellite • crosstool • buildroot • Autotools • CVS • SVN • WinXP • Apache • MySQL