

Cameron Dale

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Profile

- 3 years of enterprise Java programming experience
- Master of Science from Simon Fraser University's Department of Computing Science
- Bachelor of Science, major in Honours Applied Physics, minor in Computing Science
- 8 years of work experience in industry, university labs and research institutions
- Certified [Debian Developer](#) working on the Debian Project's Linux distribution
- Development hobbies include: open source, Android applications, Linux packages

Computer Skills

- Very experienced: Java, Python, C, C++, XSD, WSDL, SQL, HTML, LabView, Matlab, sh
- Some familiarity: Javascript, PHP, Perl, Visual Basic, Visual C++, Lisp, SAS
- Java frameworks: JavaEE 5, JAX-WS, JAX-RPC, JMS, MDBs, EJB3, Spring, Struts, JAXB, JPA, Hibernate, JUnit, EasyMock, Dozer, FreeMarker
- Java tools: Eclipse, Maven, Rational Software Architect (RSA/RAD), WebSphere Application Server (WAS), Geronimo, WebSphere MQ (WMQ), ActiveMQ, Apache Camel
- Software: Linux, Windows, Subversion, Git, DB2, MySQL, PostgreSQL

Publications

C. Dale, J. Liu, "[apt-p2p: A Peer-to-Peer Distribution System for Software Package Releases and Updates](#)", IEEE INFOCOM, Rio de Janeiro, Brazil, April 19-25, 2009.

Cameron Dale, "[Investigating and improving BitTorrent's piece and neighbor selection algorithms](#)", Master of Science Thesis, Simon Fraser University, Supervised by Dr. Jianchuan Liu, 2008.

C. Dale, J. Liu, "[Leveraging Altruistic Peers to Reduce the Bandwidth Costs of Free Content Downloads](#)", ACM SIGCOMM (poster), Seattle, WA, USA, August 17-22, 2008.

C. Dale, J. Liu, J. Peters, B. Li, "[Evolution and Enhancement of BitTorrent Network Topologies](#)", IEEE IWQoS, University of Twente, Netherlands, June 2-4, 2008. (*awarded Best Student Paper*)

X. Cheng, **C. Dale**, J. Liu, "[Understanding the Characteristics of Internet Short Video Sharing: YouTube as a Case Study](#)", IEEE IWQoS, University of Twente, Netherlands, June 2-4, 2008.

C. Dale, J. Liu, "[A Measurement Study of Piece Population in BitTorrent](#)", Proc. IEEE Globecom, Washington, DC, USA, November 26-30, 2007.

X.K. Chen, R. Wiersma, C.X. Wang, O.J. Pitts, **C. Dale**, C.R. Bolognesi, S.P. Watkins, "[Local vibrational modes of carbon in GaSb and GaAsSb](#)", Applied Physics Letters, 80, 1942 (2002).

S.P. Watkins, O. Pitts, **C. Dale**, X.G.Xu, M. Dvorak, N. Matine, and C.R. Bolognesi, "[Heavily carbon-doped GaAsSb grown on InP for HBT applications](#)", Journal of Crystal Growth, 221, 59 (2000).

Work Experience

Nov '08-Present — [IBM Canada](#) [[more info](#)]

- *Application Developer*: worked as part of a team to create customized Java EE applications
- Focused largely on backend services: Web Services, messaging, database and service beans
- Nov '10-Jun '11 — *Architect/Lead Developer*: Create an Enterprise Service Bus (ESB) solution
 - Services to receive information and requests, enable the simulation of possible outcomes
 - Designed all aspects of the solution, and instructed inexperienced developers
 - Defined the Web Services (top-down) for communication on the ESB
 - Implemented the business logic beans (EJBs) to handle and dispatch requests
 - Created a controller to handle simulations distributed to multiple simulators
 - Created the JPA entities and DAO objects used to interact with the database
 - Created a web interface to access the Web Services
- Sep '10-Nov '10 — *Web Services Developer*: Development of various Web Services' clients
 - Created clients for legacy applications to access new Web Services
 - Translated Web Service responses to business objects, applied business logic rules
- May '10-Sep '10 — *Lead Developer*: Development of a completely reliable content enriching messaging service
 - Received/acknowledged requests, built larger messages, sent to a third party
 - Integrated with many other third-party systems
 - Managed many reliability, concurrency and performance issues
 - Lead developer of a three person development team
 - Worked with the project architect on the final details of the design
 - Developed the main parts of the code
 - Managed and assigned work to two global resource developers in India
- Dec '08-May '10 — *Messaging Developer*: Keep multiple remote machines in sync
 - Designed and implemented scenarios for reliably transmitting records from remote machines to a central one, and new content from central to all remote machines
 - Owned the development and maintenance of the database interface JPA entities, including a customized JPA provider implementation
 - Participated in the development of the core EJB services
 - Developed the Maven project build configuration

Apr '07-Aug '07 — [Google Summer of Code](#) [[more info](#)]

- *Student Developer*: successfully completed the [DebTorrent project](#) working with [Debian](#)
- Developed a new peer-to-peer distribution method for distributing packages to users
- Worked independently, sometimes collaborating with other developers around the world

Jan '04-Aug '05 — [Versawave / JGKB Photonics Inc.](#), Burnaby, B.C [[more info](#)]

- *Database Administrator*: created, developed and maintained the in-house data tracking system
- *IT*: system administrator and resident expert, involved in a major computer system upgrade

Sept '00-Aug '01 — [JDS Uniphase Inc.](#), Ottawa, Ontario [[more info](#)]

- *Product Development* in the Optical Frequency Interleavers group of Fibre Optic Products
- Setup an elaborate computer simulation of the primary optical part in our product

May-Aug, 1998, 1999, & 2000 — Co-operative Education Placements

Jan-Aug, 1997 — ISM-BC, Burnaby, B.C. [[more info](#)]

- *Junior Programmer*: Developed mainframe database requests for server availability data
- Programmed complicated statistical analysis of the data using SAS

Education

Sept '00-Aug '01 — On-the-job Training, [IBM Canada](#), Burnaby, B.C.

- 5-day course: [Project Management Fundamentals](#)
- 2-day course: [Essentials of IBM Rational Software Architect](#)

Sept '06-Aug '08 — Master in Computing Science, [Simon Fraser University](#), Burnaby, BC [[more info](#)]

- Supervisor: [Jiangchuan Liu](#)
- Group: [Multimedia and Wireless Networking](#)
- Focus on networking, in particular peer-to-peer networking and BitTorrent
- Cumulative GPA of 4.13

Sept '95-Apr '00 — Bachelor of Science, [Simon Fraser University](#), Burnaby, B.C. [[more info](#)]

- Graduated with First Class Honours
- Major in [Honours Applied Physics](#), minor in [Computing Science](#)
- Cumulative GPA of 3.92, upper division GPA of 3.98
- Graduate of the [co-operative education program](#)

Academic and Community Service

Debian Developer: [Debian GNU/Linux](#) (January 2006 - Present) [[more info](#)]

Lab Manager: SFU's [Network Modelling Lab](#) (Jan - Aug, 2008)

Journalist: [The Peak](#), SFU's student-run newspaper (May - June, 2000)

Student Representative: SFU Undergraduate Curriculum Committee (September 1999 - April 2000)

President: SFU Physics Student Union (September 1999 - April 2000)

Vice-President: SFU Physics Student Union (September 1998 - April 1999)

Scholarship and Awards

Mar, 2007 — [\\$17,500 NSERC Canada Graduate Scholarship M](#)

Sept, 2000 — [\\$17,000 NSERC Postgraduate Scholarship](#) (declined)

May, 2000 — [NSERC Undergraduate Summer Research Award](#)

May, 1999 — NSERC Undergraduate Summer Research Award

Dec '96, Apr '98, Apr '99, Dec '99 — Simon Fraser University Honour Roll

Oct, 1999 — \$2,300 Evelyn and Leigh Palmer Scholarship to SFU

Jun, 1995 — \$20,000 Gordon M. Shrum Entrance Scholarship to SFU