

# Resume

**Menaka Lashitha Bandara**

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[www.lashi.org](http://www.lashi.org)

## Education

2000 – 2004 Monash University (Clayton Campus) ([www.monash.edu.au](http://www.monash.edu.au))

- ◆ Bachelor of Science (major in Pure Mathematics, minor in Astrophysics)
- ◆ Bachelor of Computer Science
- ◆ Deans List Fellow in Science (average marks greater than 85 across subjects) from 2001 – 2003
- ◆ Achieved two perfect scores (100) for Data Structures and Algorithms (2<sup>nd</sup> year subject, 2002), and for the final year project

1994 – 1999 Mt. Waverley Secondary College (Mt. Waverley, Victoria, Australia)

- ◆ Graduated with 97.5 Tertiary Entrance Rank (out of 99.95)
- ◆ Awarded for General Academic Excellence in 1996, 1997
- ◆ Awarded Academic Excellence in Mathematical Methods in 1998
- ◆ Awarded Academic Excellence in Chemistry in 1999

## Work Experience

- ◆ *Tutor and Demonstrator – Monash University (Clayton, Victoria, Australia) (February 2003 – November 2004)*  
CSE1303 (Computer Systems): Advanced C programming and assembler (MIPS), CSE2302 (Operating Systems), CSE2303 (Formal Methods 1): Theory of computing – Languages, Turing Machines, etc., CSE2304 (Data Structures and Algorithms), CSE2305 (Objected Oriented Software Engineering): C++ programming and concepts, CSE3305 (Formal Methods 2): Coding theory, Information theory, Complexity.
- ◆ *C# Programmer – Monash University (Clayton, Victoria, Australia) (7 January 2003 – 18 February 2003)*  
Implemented the Expectation Maximisation algorithm in C#, primarily for clustering web usage.
- ◆ *PERL Programmer (Wheeler's Hill, Victoria, Australia) (January 2002– March 2002)*  
Worked as a PERL programmer to automate some administration tasks on a network.
- ◆ *Contract – Network Administrator, MouseSoft Computing (Mt, Waverley, Victoria, Australia) (2002)*  
Installed Linux based firewall. Administered tightening of security and set up IP masquerading for a private network to access the Internet.
- ◆ *Contract – LaTeX programmer (Mulgrave, Victoria, Australia) (2001)*  
Produced LaTeX code to be used as a template to automate the typesetting of a car magazine.
- ◆ *Contract – Technical Editor, Connectiva Linux (Rio, Brazil) (2001)*  
Worked as a technical editor to proof read and correct the translation (Portuguese to English) of two technical sections of the Connectiva Linux users' guide.

## Volunteer Experience

- ◆ *Monash University (Clayton, Victoria, Australia) (Currently)*  
Reimplementation of the Monash Image Library – a teaching tool for image processing students.
- ◆ *University of Colombo (Polgolla, Sri Lanka) (2004)*  
Conducted lecture on Open Source software, Linux, and Unix operating systems.
- ◆ *Monash University Computer Science Club GDB Tutor (Clayton, Victoria, Australia) (2002)*  
Wrote "A guide to GDB" ([www.lashi.org/writing/guide\\_to\\_gdb\\_1.1.pdf](http://www.lashi.org/writing/guide_to_gdb_1.1.pdf))- a tutorial for the GNU DeBugger, and conducted tutorials at the university.
- ◆ *Monash University Computer Science Club Linux Installer (Clayton, Victoria, Australia) (2001 – 2003)*  
Worked as a Linux installer on mass install days organised by the club.
- ◆ *National Institute of Information Technology (Kandy, Sri Lanka) (2000)*

Conducted seminar on the Linux operating system.

- ◆ *Advanced Technical Institute (Kandy, Sri Lanka) (2000)*  
Lectured an introduction to the C programming language, and set up Linux server (including NIS, NFS, Samba, DNS, Printing) to connect dual boot clients.

### **Technical Skills**

- ◆ *Languages* – C, C++, C#, Java, ML, Haskell, PERL, Python, Lisp, Unix Shell programming, Lex/Flex, Bison/Yacc, LaTeX typesetting environment. A new language can be learned typically under 3 days.
- ◆ *Operating Systems* – Linux, OpenBSD, FreeBSD, NetBSD, Windows.
- ◆ *Networking* – Network Information System (YP Services), Network File System, SMB file system (Samba, Windows – Unix connectivity), Network Address Translation and IP Masquerading, Domain Name Serving.
- ◆ Typing speed of approximately 80 – 90 words per minute.
- ◆ Familiar with MS Office and OpenOffice.Org packages.

### **Personal Skills**

- ◆ Good communication skills.
- ◆ Highly motivated, enjoy challenges and overcoming them.
- ◆ Trustworthy, Punctual, Reliable, Focused.

### **Interests**

- ◆ *Academic:* Graph theory (in particular graph colouring), Number theory and Algebra, Mathematical Analysis (in particular Functional Analysis), Differential Geometry, Stochastic Optimisation (in particular genetic algorithms), Languages, Compilers, Computability (in particular lambda calculus), Complexity theory
- ◆ *Personal:* Astronomy, cars and mechanics, socialising, travelling, reading, theatre

### **Academic Achievements**

- ◆ *Implementation of a clustering algorithm to classify web usage (2003)*  
([www.lashi.org/academic/em](http://www.lashi.org/academic/em))
- ◆ *Graph Colouring with Small Monochromatic Components (2004)*  
([www.lashi.org/academic/graph\\_colour](http://www.lashi.org/academic/graph_colour))
- ◆ *Genetic Algorithm for curve detection (2004)*  
([www.lashi.org/academic/ga](http://www.lashi.org/academic/ga))

### **References**

1. *Dr. David Albrecht (Senior Lecturer)*  
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(Employer for CSE2303, and CSE1303;  
supervisor for EM project)
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3. *Associate Professor Graham Farr*  
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(Supervisor for final year project)