

Nanyang Technological University
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John I C Gomes

Objectives

To find a rewarding job to which I can contribute my technical experience thus enabling advancement in my career.

Education

- 1996 – 1999 Nanyang Technological University Singapore
- **Bachelor of Applied Science (Computer Engineering)**
- 1994 – 1995 Temasek Junior College Singapore
- **GCE 'A' Levels, November 1995.**
Included 4 'A' Level subjects 2 'AO' Level and 2 'S' Papers
- 1982 – 1992 St. Xaviers Collegiate School Calcutta, India
- **Indian Certificate of Secondary Education (equivalent to GCE 'O' Levels), March 1993.**
Scored 91.2% aggregate.

Professional Experience (chronologically)

- May '98 - July '98
- Hewlett Packard Singapore (Pte) Ltd**
- Develop a web-based portal for the Human Resource Information System.
 - Developed using Dynamic HTML, Microsoft Cascaded Style Sheets and Netscape's Layers.
 - Used NetObjects Fusion and Frontpage for the development.
 - The development required me to design a project plan and the document my work at the end of the development.

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| July '98 -
December '98 | <p>BG Technology(British Gas) - Loughborough, United Kindgom</p> <ul style="list-style-type: none"> ▪ Developed a Remote Automation Controller to perform testing of Pressure Regulating Governors over the PSTN. ▪ Involved Object Oriented approach in attaining the solution. ▪ Used Visual C++ and basic Win32 API for the communication over the PSTN (Public Service Telephone Network). ▪ Developed the system based on British Telecoms RITA protocol for controlling TIU (Telemetry Interface Unit). ▪ Involved working with a team of four engineers/scientists to design the entire system. ▪ The development included design of the project plan and the documentation at the end of the development. |
| May '99 - July '99 | <p>Hewlett Packard Singapore (Pte) Ltd</p> <ul style="list-style-type: none"> ▪ Development of an internet based portal for the development of a Knowledge Hub. ▪ Involved extensive design of the entire site with included the layout and the theme. ▪ Used Macromedia products like Authorware, Shock 4.0. ▪ Developed the portal using DHTML, CSS, Layers and Javascript. ▪ Documentation of the Project was also included. |
| Aug '99 – Oct '99 | <p>Hewlett Packard Singapore (Pte) Ltd</p> <ul style="list-style-type: none"> ▪ Development of an Internet based Call –Center to enable an online audiovisual support system. ▪ Used NetMeeting 3.01 API using Visual C++ and internet programming. ▪ Required the use of Active Xtm Technology to integrate the Call-Centre to the Web. |

Projects undertaken

Academic:

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| August '96 -
February '96 | <p>Development of a Simulation of a Dialysis Machine under Mechanical and Production Engineering - NTU, for National Kidney Foundation (NKF) – Singapore</p> <ul style="list-style-type: none"> ▪ Used the simulation software Rapid for the development ▪ Used DDE to communicate between two modules which were operated on two different computers connected together using a serial cable. |
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August '97	Computer Graphics <ul style="list-style-type: none"> Developed a wireframe and rendered models of #-D Objects using PovRay and OpenGL on Unix workstations.
August '97	Microcomputer System Design <ul style="list-style-type: none"> Developed the memory modules and the I/O interface (PI/T and ACIA) of a MC68000 microcomputer system.
November '97 - December '97	In House Practical Training <ul style="list-style-type: none"> Development of Digital I/O, Analog to Digital, and Digital to Analog card involving Process control system and Remote Automation.
January '99 - December '99	Final Year Project - Software Simulation of the operations of the Motorola 68000 microprocessor. <ul style="list-style-type: none"> Developed using Visual C++, basic Win32 APIs and Macromedia Authorware. Involved the design of an environment for the development of Motorola 68000 microprocessor. This environment is also to design a tool for Graphical illustration of the M68k operations for teaching and understanding purpose. Involved extensive development using Windows API and Visual C++ using Microsoft Foundation Classes (MFC).

Non - Academic:

February '99	Heller Asia Business Plan Competition <ul style="list-style-type: none"> Developed a business plan for the marketing of a model for the shipping of containers. Involved working with a team of four people.
January '99	SC21 - Database connection for and internet site <ul style="list-style-type: none"> Used ASP to connect an internet site to a Microsoft SQL server backend.
January '99 -June '99	Development of a Backup storage system over the internet <i>(Note: This project was not Completed as the project was called off)</i> <ul style="list-style-type: none"> Developed of an internet based storage system for the backup of data. Involved a three-tier client server system. The front end involving Windows Shell programming using Visual C++. Middle tier was to be developed using Borland Midas The backend was designed using Oracle 8i.

July '99

MG Logic – Development of a Printer spooler for HP Officejet and Deskjet series of printers to be used in Windows system

- Develop a spooler to allow printing of picture files directly to the printer without using the windows print spooler.
- Use low level Win32 APIs.

Scholarships and awards

1. Public Service Commission Bursary
 - To pursue University education at Nanyang Technological University -Singapore, towards the achievement of the degree of Computer Engineering.
 - Included a sum of Singapore \$6000 per annum.
2. Singapore Airlines Youth Scholarship
 - Pursue two years of Junior College leading to the Singapore - Cambridge GCE - 'A' Level examination.
 - [It included the tuition fees, hostel fees, return airfare to India once a year and a stipend of Singapore \$1400 per annum.]
3. Science Research Programme with National University of Singapore (1995)
 - To participate in the prestigious programme to work closely with the NUS department of Computer Engineering.
 - Develop a set of sensors for Robot arm and study its efficiency.

Job related skills

- Well versed in Visual C++ using MFC, Visual Basic and legacy C programming.
- Have experience in Visual Basic for Applications in Access database, DHTML, CSS and Layers using Netobjects Fusion, Rapid Simulation software graphics packages like OpenGL, Client-side JavaScript.
- Worked extensively under Microsoft Windows NT and UNIX environments.
- Familiar with Object-Oriented Technology, Computer Networks, Operating Systems, Database Systems and Distributed Systems.
- Have extensive experience in graphics and imaging packages like Adobe Photoshop, paint shop Pro, Macromedia Flash and online training packages like Macromedia Authorware.
- Have prior experience in application packages like Microsoft Office Suite and VBA programming, ProTel PCB Design/Analysis Tool and Software design tools like MetaEdit.
- Good knowledge of management related issues.

Course Work

Year 1

Electronics
Logic Design
Systematic Programming
Engineering Mathematics
Principles and methods of effective communications
Computer Organization
Data Structures
Discrete Mathematics
Probability and statistics

Year 2

Electronics
Computer Graphics
Software Engineering

Year 3

Operating Systems
Computer peripheral
Real Time Systems
Computer communications
Computer Networking

Computer Architecture
Management
Robotics
Compiler Design

Leadership skills

- **Applied Science Club 8th Management Committee (Aug 1996 to Aug 1997)**
Position Held : Business Manager.

Research and Papers published

- Science Research Programme with National University of Singapore (1995)
(Sponsored by the Shaw Foundation, Singapore)

Professional Membership

- Computer Society of India - Calcutta Chapter (1992-1993)
Position: Student member

Hobbies and Interests

- Software developments, especially in the area of Networking, client server programming, database management systems and process control system.
- Aeromodelling
- Music
- Reading
- Photography
- Travelling

Languages

Fluent in English and Bengali and basic knowledge of Hindi.

References

United Kingdom:

Kevin Milligan, CEng, MIEE, CPhys,
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Dr. Robert Tucker
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Singapore:

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