SIMON GWO-UEI TENG

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OBJECTIVE

Desire to make contributions in a challenging Software Developer, Programming or Networking position, and to earn advancement through continued, excellent performance.

EDUCATION

University of Wisconsin-Madison
B.S. Computer Science, May 2001

Relevant Courses/Projects

- ***Computer Networks***: study of protocol concepts and standards with main focus on TCP/IP; Architecture and components of computer communications network.
  - o Designed a router application and an **ICMP**-like application that implement a link-state routing protocol using **OSPF** algorithm.
  - o Designed a transport protocol that provides delivery of data from a server system to a client system with flow control and congestion control using **AIMD** and **Karn/Partdridge** algorithm.
  - o Implementation with **UDP** and **TCP** as end-to-end protocols.
  - o Socket programming in Redhat Linux 6.1 environment using EMACS and DDD debugger.
  - o **Multi-threading** implementation in **C** and **C++**.

- ***Introduction to Operating Systems***: Study of the concepts that underlie operating systems.
  - o Designed an I/O Manager program that simulates the behavior of a system where a set of processes is working concurrently.
  - o Deadlock and Starvation prevention implementations.
  - o Implementation of Open File Table and Process File Table.
  - o **Multi-threading** implementation in **JAVA**; Thread Synchronization.
  - o Programmed in **Sun Solaris 2.6** environment using EMACS, XEMACS, and DDD.

- ***Programming Languages and Compilers***: Theory and practice of compiler design.
  - o Designed a compiler, which include Scanner, Parser, Name Analysis, Type Checking, and Code Generation.
  - o Programmed in Solaris 2.6 environment using JAVA and Spim interpreter.
  - o Implementation involved JLex, Java Cup, and MIPS assembly code.

- **Artificial Intelligence:** Study of knowledge-based search techniques; automatic deduction; knowledge representation using predicate logic, semantic networks, connectionist networks, frames, and rules.
  - o Designed a decision-tree induction algorithm application.
  - o Designed BFS, Depth First Iterative Deepening, and Algorithm A searching applications for use on a domain of searching for a goal web page in an artificial intranet.
  - o Designed a Back-propagation algorithm application.
  - o Programmed in Solaris 2.6 environment using JAVA.

- ***Algorithms***: In depth study of algorithms for sorting, searching, pattern-matching, and graph manipulation. Paradigms for algorithm design. Techniques for efficient implementation.

- ***Systems Modeling Fundamentals***: Study of the concepts of queueing network models and associated analyses.

COMPUTER SKILLS
- <u>Operating Systems:</u> Unix, Linux, Microsoft 95/98/2000, and DOS.
- <u>Programming Languages:</u> Java, C/C++, VB, VBA, Assembly, HTML, SQL, Basic and Pascal.
- <u>Software:</u> Visual Studio 6.0, Microsoft Office 2000, FrontPage 2000, AutoCAD R.14, Java WorkShop, JLex, Java Cup and DDD.

STRENGTHS
- <u>Communication:</u> Comfortable and effective communicating with supervisors and colleagues; Able to speak and write **Mandarin** and **Cantonese**.
- <u>Responsibility:</u> Take **pride** in my work; **self-motivated** and willing to set **high goals** and work to achieve them.
- <u>Team Work:</u> Great ability to **thrive** in a team environment.
- <u>Flexibility:</u> Able to quickly and efficiently **adjust** myself to fit into the working environment and team; willing to travel or relocate to oversea.

SELF-PROJECT   October 2001 – Present

Peer – to – Peer File Transfer Application
- Designed a transport protocol that provides delivery of data from a server system to a client system with flow control and congestion control using AIMD and Karn/Partdridge algorithm.
- Ability of **automatic** or **user selection** of the interfaces (PPP,ETH …) employed in the data link layer.
- Using UDP as end-to-end protocol.
- **OOP** and **multi–threading** implementation using **C++** on Redhat Linux 7.0 environment.

WORK EXPERIENCES

Internet Ticket Agent, *September 2001 – May 2002*
Marco Polo Tour & Travel
- Researched of ticket prices for amusement parks, airfares, and other events on the Internet.
- Established price agreements with the particular parties.

Microsoft Excel Programmer, *June 1998 – September 1998*
Hong Kong Kitchen (Contract)
- Set up Excel for inventory, monthly statement and invoice-handling purposes.

Computer Lab Aide, *March 1997 – March 1998*
Moraine Valley Community College
- Assisted lab manager and technicians in administrating the labs.
- Provided software/hardware supports to students and faculties; Hardware installation and upgrade on PC platform.

Office Assistant, *January 1996 – July 1996*
Marco Polo Tour & Travel
- Handled paper works; prepared itineraries for tours; maintained database.