

Nevin Wong

3735 S Canfield Ave, Apt 1, Los Angeles, CA 90034 – (408) 464-1423 – nevin@nevolution.org

EDUCATION:

Master of Science, Computer Science, concentration in Multimedia and Creative Technologies *Dec 2005*
University of Southern California, Los Angeles, CA

GPA: 3.93/4.0

Related Courses: Database, Data Compression, Multimedia Systems Design, Web Technologies, Computer Graphics, Animation, Artificial Intelligence

Bachelor of Engineering, Computer Engineering *May 2001*

Chinese University of Hong Kong, Hong Kong

Graduation Project: Multisensory Interaction of VR Medical Models

- Medical volume visualization and interaction with two handed controls using 3D input devices
Advisor: Professor Hanqui SUN (hanqiu@cse.cuhk.edu.hk)

WORK EXPERIENCE:

Auryn Inc, Los Angeles

Image Synthesist

2006 – Current

- Research in producing coherent painterly non-photo-realistic animated graphics.
- Development of core computer animation pipeline with C++ and Boost, helper scripts and applications.
- Design and development of Maya GUI application with MEL for asset generation and work flow management.
- Design and development of in-house graphics editing and image sequence processing software with QT.
- Research and implementation of optimized mathematical solvers with C++ utilizing LAPACK and BLAS.
- Research in advanced image processing techniques.
- Coordinate with India subsidiary in animation production, including streamlining work flow across different timezones; optimizing resource utilization across the continents; problem identification and solving; finding workarounds; management and training of staff.
- Production of award winning computer animated short films.
- Film Credits:
 - [The Girl Who Cried Flowers](#) – Lead Production Software Engineer
 - [In Winter Still, A Claude Monet Story](#) – Image Synthesist
 - [Almond Blossoms, A Vincent Van Gogh Story](#) – Image Synthesist

Shanghai Commercial Bank, Hong Kong

Analyst Programmer

2001 – 2004

- Maintenance and Development of Internet Banking System using IBM GoldDirect
- Prototype design and creation for Internet Banking re-engineering project using WebSphere Business Component Composer (WSBCC) framework; participated in the development process in a multi-teamed environment; conducted user acceptance test (UAT) and system integration test (SIT) for the project.
- Performed MQ integration for the bank network using WebSphere MQ Integrator (WMQI)
- Designed and implemented a real-time market prices and exchange rate broadcast and display system for use in bank branches
- Performed stress tests for web based applications using OpenSTA
Reference: Mr. Chun Kit CHENG (ck.cheng@shacombank.com.hk)

iASPEC Technologies, Hong Kong

Summer Intern

Jun 2000 – Aug 2000

- Implemented a textile trading web site in a teamed environment using BroadVision

ACADEMIC PROJECTS:

Spatial Database Query Application:

- Graphical map database query application making use of Oracle spatial features, implemented with Java.

Multimedia Media Authoring Tool:

- Video authoring tool allows user to author object-based video with interactive button controls, Picture-in-Picture contents and sound. Implemented with Java Swing.

Image Processors:

- A collection of digital image processors implemented in C++. Image morphing, morphological processing, texture identification, character recognition, contrast manipulation using different algorithms such as histogram equalization.

Artificial Intelligence Systems:

- Crossword puzzle solver using simulated annealing algorithm; Rating system with fuzzy logic.

Google Suggest:

- Interfacing of Google Suggest using AJAX and Java servlet.

Graphics Renderers:

- Fully functional 3D renderer implemented in C with image transforms, Phong and Gouraud shading, texture mapping and super sampling; a separate renderer with ray-tracing functionalities; another renderer implemented in C++/OpenGL with quaternion rotations and animation capabilities.

Water wave simulation:

- Real time, interactive water surface simulation with realistic wave propagation effects.

SKILLS:

Software: C, C++, Java, Javascript, PHP, Perl, Python, MEL, familiar with Windows, Unix and Linux platforms

Language: English, Cantonese and Mandarin

LEADERSHIP AND ACTIVITIES:

- **Chairman**, Queen's College Astronomers' Club, Hong Kong 1996 – 1997
- **President**, New Asia Microcomputer Lab Association, Chinese University of Hong Kong 1998 – 2000