

Anthony C. Chow

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EDUCATION

(8/01 – 5/02) **University of Southern California, Los Angeles, CA**
M.S. Computer Science. GPA 4.0

(8/96 – 5/01) **University of North Carolina Chapel Hill, Chapel Hill, NC**
B.S. Computer Science, Minor in Chemistry.

RELEVANT COURSEWORK

- Data Structures
- Computer Graphics
- Web Programming
- Models of Language and Computation
- Analog and Digital Devices
- Software Engineering
- Brain Theory and AI
- Database(current)
- Software Engineering(current)
- Computer Architecture
- Algorithms Analysis
- Operating Systems
- Fundamentals of Programming
- 3-D Image Recognition
- Files and Databases
- Multimedia Systems and Design
- Compiler Design(current)
- Issues of Language Programming Design(current)

EXPERIENCE

(1/02 – 5/02) **Software Engineering** – *University of Southern California, Los Angeles, CA*
Enhancing the flexibility of the existing Velero IV voyage data to add map access. Allowing the latitude/longitude data in the records to link to a map or maps to assist the user to visualize the location.

(5/01 – 8/01) **Software Intern** – *Syngenta, Greensboro, NC*
Designed and implemented Access applications with Oracle backend and several ASP web applications using XML, XSL, XML DOM, Oracle Database, VBScript, JavaScript, and Visual Basic. Also Maintained numerous ASP pages and Access Apps.

(1/01-5/01) **Software Engineering Team Director** - *University of Chapel Hill, Chapel Hill, NC*
Group Project Director for development of a 3-D surgical cutting-path specification tool (MIDAS) under Dr. Steven Alyward. Facilitates surgeons in brother to brother liver transplants.

(1/01-5/01) **Independent Studies in 3-D Image Recognition** - *University of Chapel Hill, Chapel Hill, NC*
Designed and researched ways to identify objects from segmentation of 3-D range data. The main goal was to use statistical analysis in tandem with a decision making tree to determine the type of object.

(5/00 – 8/00) **Software Intern** – *Novartis Crop Protection(Syngenta), Greensboro, NC*
Used chemical molecular programs AMPAC/CODESSA to calculate over five hundred properties for over one hundred solvents. The data was normalized and independent variables were searched to create a function that represented a large percentage of the properties. Different searching techniques like neural networks and multidimensional analysis were used to determine the least amount of independent variables needed to reconstruct the most accurate data set. The three most important variables that represented the data set were plotted on a 3-D graph. From the data, a Java Applet was created to manipulate the 3-D graph on the Novartis intranet. Calculations were made to find the closest solvent and the closest combination of solvents to the one picked by the chemists. The calculations were visualized by overlaying and coloring the 3-D graph.

(5/99 – 8/99) **Research Assistant** – *UNC - Chapel Hill, Chapel Hill, NC*
Worked under Dr. Frank Tsui to design and implement a Labview program to control and monitor motor movements for a Molecular Beam Epitaxy machine. The program was designed using feedback to control the motor and was implemented to ramp the motor, set velocities to jog, move the motor to a certain position in a given time obtained via text file.

SKILLS

Languages: C++, HTML, PERL/CGI, Turing, Java/Applets, SQL3, GQL, ASP, VBScript, JavaScript, Visual Basic, XML, XSL, XQL, XML DOM, ADO, HTML, JSP, Java Servlets and LabView
Software: Visual Studio, OpenGL (GLUT), MS Access, AMPAC/CODESSA, FLTK/FLUID, NSL , MS Office, Informix, VTK, PWS (IIS-5.0), Power Designer, ARCview, Apache, Tomcat, MySQL, SUIF, MIDAS and STATISTICA
Platforms: Windows95/98/NT, Unix, DOS, and Macintosh

References, Club and Activity Information available upon request