

Xiayang Yan

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OBJECTIVE Seeking a full-time technical position in Software Engineering.

EDUCATION & TRAINING

University of Michigan College of Engineering Ann Arbor, MI
Computer Science Engineering, Class of 2009

Yorktown High School Arlington, VA
National Honor Society, Class of 2005

National Young Leaders Conference Summer 2004 Washington D.C.

EXPERIENCES & PROJECTS

University of Michigan College of Engineering 2005 – 2009

- *EECS 484*: Experience with relational database management systems (DBMSs). Projects include managing a database-backed file search engine in Oracle; build a simple relational database system including file/page system, database catalog, buffer manager, and query functionalities in SQL style. Programming in C++, SQL, and Java.
- *EECS 482*: Learn basics of operating systems. Projects include implement essential UNIX thread (pthread) library functions; implement an external pager, which is analogous to the VM portion of a normal operating system; and implement a multi-threaded, secure network file server model involving file systems, socket programming, client-server systems, and security protocols. Programming in C++.
- *EECS 497/TC497*: Work with two teammates on developing software for 2D simulation of water seepage effects on underground tunnels using FEM library LibMesh and Qt coding in C++. Development procedures are documented in SRS report, Scope document, Architecture document, and final report/presentation.
- *EECS 498*: Learn about entrepreneurship essentials. Learn about upcoming mobile technology, such as Google's Android.
- *SI650*: Gain understanding of how search engines work, investigates different search methods, and analyzes textual and semi-structured data sets. Projects include build basic information retrieval system using Clairlib; Text classification using Perceptron Model; crawling/network analysis of small website. Programming in Perl. Final report is a self-picked topic of investigation of recommendation methods used by top teams in the Netflix Prize competition.
- *EECS475*: Learn concepts, algorithms, and protocols in cryptography, including mathematical study in terms of algorithmic complexity. Final

- report investigates encryption used in protocols/networks such as IPsec and FreeS/WAN. Algorithms include HMAC, TripleDES, AES, etc.
- *EECS280/281*: Practice Object-Oriented Programming in C++. Projects include Blackjack simulator, Monopoly, Data clustering.
 - *EECS 370*: Emulate simple computer architecture involving implementation of memory addressing, ALU, instruction optimizing, pipelining, and virtual memory. Programming in C.
 - *EECS 270*: Implement projects such as way-finding robot, game controller simulator. Programming in Verilog.

Co-op Intern, Information Technology 2007, 2008
CACI-Dynamic Systems Inc. Arlington, VA

Perform technical and historical research to assist staff in preparation of deliverables. Perform testing and documentation of information system software FedSelect and Capital Asset Tracking System (CATS). Help program new functions for FedSelect in VB. Help conversion of CATS from VB to VB .NET. Add database-backed progress tracking function and submission functionality improvement to IAA ethics training course.

Administrative Assistant / Marketing Rep. 2005, 2006
Chi Associates Inc. Arlington, VA

Provide assistance to the company president. Duties include market information research and company web design, responsible for conference exhibition displays and brochure and handout preparations. As an IT consultant, work with clients in establish server in an office environment and provide assistance in network connection and software configuration.

SKILLS

Operating systems:	MSDOS, Linux/Unix, Windows, MAC
Programming languages:	C, C++, Java, Matlab, HTML, PHP, Verilog, CSS, ActionScript 2.0, perl
Software/tools:	MS Office suite, Visual Studio .NET, PhotoShop CS2, Dreamweaver 8, SSH, FTP, Eclipse
Languages:	English (fluent), Mandarin (fluent)

ACTIVITIES

University of Michigan Dance Club/Team **Fall 2006 – Fall 2008**
 Nov. 2006 – Attended Ohio Star Ball in Columbus, OH with team.

Tae Kwon Do Club/ Demo Team **Fall 2005 – Fall 2007**
 Oct. 2005 – Placed 3rd in color belt division in Horangi Cup held by DePauw University, IN.
 Nov. 2006 – Attended with team in 19th Annual Northeast Collegiate Taekwondo Invitational at Cornell University.

REFERENCES AVAILABLE UPON REQUEST