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David Dantowitz
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Software Development

Development in C: tools, algorithms, computation, optimization, search, programming language development, automated testing, UX/UI design & prototyping, OS internals and computer architecture. Strong communication skills: tech and non-tech.

Developed a full stack environment, front to back in C, with a multi-threaded, MVCC, NoSQL Database with location-based components, used for REST apps. Licensed by Apple and others.

Publication

A Fast Shuffle for Binary Search – <http://TinyUrl.com/FastShuffle> May 2018
A Fast String Match Algorithm (4.2 speed up over DL) – <http://dantowitz.com/> July 2011

Experience

Software Developer & Consultant, Millburn, NJ 1989-Present

Developed and Designed custom tools and commercial apps (core language C):

3 custom programming languages & interpreters • advanced Mail Server software • a message-based multi-threaded simulation engine with lock-free data structures for shared memory parallel processors • an Apache CGI-App gateway • a CMS

MillburnMac.com, Millburn, NJ 1989-Present

Founder, Technical Support Consultant — Worked with Consumers and Businesses.

InterActions Media, a division of NCI Advertising / Publicis, New York, NY 1999-2002

Co-Founder, VP Development — Created and managed 25 projects, peak team size of 10 people. Software for education, marketing, games, contests, surveys, and secure data collection.

Ehrlich Multimedia / Times Mirror Multimedia, Park Ridge, NJ 1993-1995

Developed Interactive CD-ROM titles and custom tools.

Graphex Imaging Systems, Yonkers, NY 1991-1993

Computer graphics & tools, ported C source for a PostScript RIP from Windows to Mac OS & Unix.

Symantec / Peter Norton Product Group, Santa Monica, CA 1991

Consultant — Developed components and tools for The Norton Desktop for Windows 3.

Citicorp / Transaction Technology, Inc., Santa Monica, CA 1989-1991

Consultant — QA for Bank ATMs. Took the initiative to develop a Goal-Seeking programming language & interpreter to model ATMs. The interpreter generated robot code to test ATMs.

Digital Equipment Corporation, Boxborough, MA 1985-1989

Automated Computer Architecture Verification software for CISC and RISC CPUs. Developed test strategies, methods, and Monte Carlo models for register files, instruction order, and floating point.

Education

University of California, Los Angeles, CA 1989-1991

Advanced to Candidacy for a M.S. in Computer Science (ABD), GPA 3.71, Computer Architecture, Fault Tolerant Computing, & Parallel Simulation. Developed a multi-threaded simulation engine for a Shared Memory Parallel Super Computer (akin to MPI). ACM Programming Team.

University of Massachusetts, Amherst, MA 1981-1985

B.S. in Computer Science, GPA 3.92, elected to Phi Beta Kappa, Cum Laude

Dean's list every semester & an Alumni Scholar. Operating systems, numerical computation, and computer graphics. Graduate TA my last semester for a course on assembly language.

Interests

Community theater and a cappella. I have performed on radio, television, and film.

The Internet Movie Database: <https://imdb.com/name/nm4774372/>