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PROFILE

Master's degree in Computer Science with broad technical skills and a history of using open source tech to solve problems and create communities. A quick study and self-learner who loves to code and create beautiful things. Happy user of Unix since 1988 and Linux since 1994, and an expert Emacs user. Thirteen years dev experience at athenahealth and Prealizer.

EDUCATION

Dartmouth College, *Hanover, NH* **1994–2001**

- **M.S.** in Computer Science, 1997; work toward Ph.D., 1997–2001

Harvard University, *Cambridge, MA* **1988–1992**

- **A.B.** in Comp. Sci. *cum laude*, 1992. Harvard College Scholarship and dean's list.

AWARDS AND PRIZES

- **U.S. Patent** US9372916B2 "Document Template Auto Discovery" with Steven James Stone and Fuchang Yin, 2016.
- **David P. Robbins Prize** awarded by the Mathematical Association of America, with James Henle, 2014.
- **OWL Award** for team achievement at athenahealth, awarded four times in 2007–2010.

TECHNICAL SKILLS

- **Current Languages/Interfaces:** HTML/CSS/jQuery, JavaScript, Perl, Perforce/Git, Oracle/PostgreSQL/MySQL, Python/VPython, C/C++, Bash, Emacs, \TeX / \LaTeX /mfpic
- **Stuff I used to know:** PHP, CGI, Java, OpenGL/GLUT/GLUI, X/Xlib/Xt, BASIC, FORTRAN, Pascal, LISP, Prolog, Tcl/Tk, PostScript, MATLAB, GHOST, LilyPond, PmWiki

TECH EMPLOYMENT

Prealizer Health (formerly Cardinal Analytx), *Palo Alto, CA* **2017–present**

- **Principal Data Engineer.** Remote member of engineering team at healthcare startup. Designed and implemented adaptive throttling and monitoring for data pipeline.

athenahealth, Inc., *Watertown, MA* **2006–2017**

- **Developer–Architect.** Worked on all aspects of multiple products in growing healthcare SaaS company. Hired as Developer, subsequently promoted three times; led teams and managed people along the way. Signature projects and achievements include:
 - system for reviewing and tagging ERA regression results
 - system for automated self-service training database refreshes
 - patient deidentification function in pure SQL, reducing time to scramble one large practice from nine days down to sixty seconds
 - Oracle schema browser now used by SQL class
 - wiki page to monitor dev server load
 - system for annotating faxes online, reducing paper and fax volume
 - OCR template visualization and creation, including an automatic template generator that was granted Patent US9372916B2 in 2016
 - bulk editing script used successfully to modify a thousand source files

Mercersburg Academy, Mercersburg, PA

2001–2006

- **Faculty.** Developed and taught intro CS courses (using Python/VPython), and AP (using Java). Set up and administered computer lab running Ubuntu Linux, using NFS and NIS for student accounts. Coauthored and typeset a 200+ page Geometry study guide with 250+ diagrams, using \LaTeX and mfpic. Identified and filled needs for web applications using LAMP stack, including:
 - on-line approval voting system for student and faculty elections and surveys
 - senior projects website, including on-line forms which generate PDF

Dartmouth College, Hanover, NH

1994–2001

- **Research Assistant** to Prof. John Danskin (Graphics, Data Compression) 1994–1997; Prof. Bruce Donald (Animation, Haptics) 1997–2001.
- **Mathematical Typesetter.** Used \LaTeX to typeset every written homework assignment, as well as several conference papers and grant applications.
- **Teaching Assistant.** Software Engineering, 1997. Intro. to Comp. Sci., 1998.
- **Web Developer.** Wrote Perl CGI script for long distance phone bill splitting between housemates. Created website and searchable alumni directory for a music camp, and for a high school reunion. Wrote a Perl CGI script to demonstrate quantum cryptography (later rewritten in PHP).

Smith College, Northampton, MA

1992–1994

- **Programmer.** Implemented the XVT portability toolkit API in the X Window System to port applications for calculus project. Performed various user support and system administration tasks under HP-UX and Irix.

University of Massachusetts, Amherst, MA

summers 1989–1990

- **Programmer.** Research assistant to Prof. Donald St. Mary of the Math Department. Self-taught FORTRAN from VMS FORTRAN manual. Wrote FORTRAN code to graph contour plots of 2-D data (later rewritten in C). Wrote FORTRAN, Unix shell scripts, and PostScript code to use various graphics packages.

ACTIVITIES AND INTERESTS

- **Board of Directors.** Harvard-Radcliffe Orchestra Foundation, 2017–present; the Music School at Sound Crossing, 2017–present; Holyoke Civic Symphony, 2010–present.
- **Professional Violinist** in the Maryland Symphony Orchestra, 2002–2006. Currently playing with the Holyoke Civic Symphony. Previous orchestras include the Harvard-Radcliffe Orchestra, the Pioneer Valley Symphony, the Dartmouth Symphony Orchestra.
- **Recreational Mathematician.** With Prof. James Henle of Smith College, proved that one can tile the plane with exactly one of each square of positive integer side, 2005; published in the American Mathematical Monthly, 2008; awarded the David P. Robbins Prize, 2014.
- **Gathering for Gardner.** Attended invitation-only conference 2012–present.
- **Word Game Enthusiast.** Scrabble, Boggle, Anagrams, The Last Word, etc. Wrote system for authoring and playing acrostic puzzles.
- **Ultimate Frisbee.** Organized and played pickup ultimate at Harvard, Smith, Dartmouth, Mercersburg, Suffield, and Watertown.