

ERIC L. M. THOMAS

EDUCATION

SPRING 2009 Bachelor of Science: Computer Science
ROWAN UNIVERSITY, Glassboro, NJ
Specializations: Software Engineering,
Information Technology,
Programming Languages & Compilers,
Artificial Intelligence
GPA: 3.551, Cum Laude

TECHNICAL SKILLS

Languages: C/C++, Ruby, Tcl/Tk, Java, Python,
Perl, PHP, Scheme, bash, tcsh

Systems: Linux (Fedora, Ubuntu, RHEL),
Unix (AIX, Solaris),
Microsoft Windows (3.1 - Vista)

Software: Version control(Git/Mercurial/SVN),
Development tools(vim, Eclipse),
Database systems(MySQL, SQLite),
Web servers(Apache, mongrel),
many Unix utilities.

Miscellaneous: Rails, XML, YAML, HTML5,
REST, regular expressions

PROJECTS

drum-tabber Spring 2009
A multi-threaded Java application that decrypts MIDI
signals from an electronic drum kit and converts them to
drum tablature (music notation represented with ASCII
text).

arimaai Spring 2009
Co-developed an AI bot in Python and Psycho to explore
various search algorithms implemented for Arimaai, a
board game that has proven to be more difficult for
computers than chess.

WebGPS Fall 2008
Real-time interactive web visualization tool which graphi-
cally displays the hierarchy structure of a web page.

FlightGUI Spring 2008
Served as team leader on a collaborative project between
Rowan University and Fairfield University to develop
FlightGUI, an application that calculates and graphically
displays readings of flights in conflict.

AWARDS

- Upsilon Pi Epsilon International Computer Science
Honor Society
- Chi Alpha Sigma National Athletic Honor Society
- Edward J. Bloustein Scholarship

PROFESSIONAL EXPERIENCE

Computer Scientist Spring 2009 to Present
Federal Aviation Administration, Pomona, NJ

Currently working with a rapid prototyping team that coordinates
with human factors experts to prototype new air traffic control sys-
tems.

- Redeveloped DataLink, a simulated "text messaging" system
between controller and pilot to replace voice-only communica-
tions.
- Wrote various data capturing plugins to calculate air traffic
within a given region of airspace.
- Converted system from 32 bit to 64 bit architecture.
- Created custom supervisor and test suite GUIs.
- Configured system to utilize the Boost C++ libraries.

Researcher Winter 2008 to Spring 2009
Rowan University, Glassboro, NJ

Co-developed a unique concept of data analysis to compare aircraft
trajectory prediction tools.

Paper: *Enhanced Star Glyphs for Multiple-Source Data Analysis*;
presented at 13th International Conference on Information Visual-
ization (IV), 2009.

Student Co-op Spring 2008 to Summer 2008
Federal Aviation Administration, Pomona, NJ

- Developed application to read and parse a live data stream
of the position and flight plans of all aircraft in the National
Airspace System.
- Wrote an inventory management system in PHP/MySQL.
- Performed network configuration of a research and testing lab-
oratory.
- Installed and managed an Apache HTTP server.

COMMUNITY SERVICE

- Served as a teacher of web design and development for a non-
profit organization that provides creative programs to the youth
in Camden City. The program was featured on NBC's 10!
show.
- One of three judges for the math category at the Jersey Shore
Science Fair.

HOBBIES

Competitive runner, board game aficionado, parsing expression
grammar dabbler.

CONTACT

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