

Michael C. Grace

Education

M.S. in Computer Science 5/2008 (estimated)
North Carolina State University Raleigh, NC 27695

- *GPA*: 3.583/4.0
- *Languages Known*: Lisp, in addition to the ones below.
- *Graduate Work*: CSC505: Design and Analysis of Algorithms, CSC520: Artificial Intelligence I, CSC554: Human-Computer Interaction, CSC591A: Practical AI Programming, CSC630: Master's Independent Study (ProofChecker UI Development)

B.S. (Magna Cum Laude) in Computer Science 5/2006
North Carolina State University Raleigh, NC 27695

- *Total GPA*: 3.554/4.0; *Major GPA*: 3.914/4.0
- *Languages Known*: Java, C, C++, PHP, Perl, Pascal, Scheme, 8086 assembler, MATLAB, compiled BASIC, Tcl/Tk.
- *Familiar Platforms*: Windows, POSIX Unix/Linux, legacy DOS, CVS, Subversion, XML (SAX, DOM Level 3, & XPath), Globus, XGrid.
- *Graduate Work*: CSC510: Software Engineering, CSC791C: Bioinformatics

Work experience

Accessibility Developer 1/2005-present
NCSU Information Technology Division Raleigh, NC 27695

- I wrote a pure Java software framework to simplify the process of connecting to a remote server's desktop. The software is entirely modular, allowing various communication protocols to be supported by means of drop-in modules. It is the first non-Linux package in the world capable of tunneling Text-to-Speech output without resorting to high-latency sound forwarding.
- This work has been presented at three national conferences on accessibility, including twice at the California State University (Northridge) Technology & Persons with Disabilities Conference, as well as at the state UNC CAUSE IT conference.
- I developed this for the NCSU Information Technology Division's Virtual Computing Lab project (<http://vcl.ncsu.edu/>). It is currently being open-sourced pending the approval of the Office of Technology Transfer.

Teaching Assistant 8/2004-12/2004, 5/2005-8/2005
North Carolina State University Raleigh, NC 27695

- Fall 2004: As one of three Teaching Assistants for an automata and computability theory course, CSC333, I had several responsibilities. I regularly held office hours to assist students on an individual basis. In addition, I graded papers, conducted student group problem sessions, and administered tests and homework for a visually-impaired student.
- Summer 2005: As the sole Teaching Assistant, I managed a smaller section of the same course.

Extracurricular activities

ProofChecker Developer and Architect 8/2004-present
North Carolina State University Raleigh, NC 27695

- Under the direction of Dr. Matthias Stallmann, I rewrote an educational software package, ProofChecker. Initially a very visual, mouse-driven application, I made the interface accessible to visually-impaired students. I am now rewriting the internal architecture completely. This will enable modules to be added to and removed from the core application on demand.
- ProofChecker is a Java application used to teach Automata and Computability Theory material. Currently, it allows the user to model a Finite Automaton and check it for correctness. More modes are planned.

WolfGrid Architect 8/2004-1/2006
North Carolina State University Raleigh, NC 27695

- As part of the first community supercomputer project, the WolfGrid, I am writing a grid agent package for Linux-based computers. The grid uses Apple's XGrid software for communications, which currently runs only on Macintosh-based computers.

Awards

Donald L. Bitzer Creativity Award 2005
North Carolina State University Raleigh, NC 27695

- For my work on the accessibility of ProofChecker's canvas, I was awarded the 2005 Donald L. Bitzer Creativity Award, the highest award given by the Department of Computer Science at North Carolina State University.

Upsilon Pi Epsilon Membership 2005-present
North Carolina State University Raleigh, NC 27695

- I am a member of the North Carolina State University Chapter of ACM's Honor Society, Upsilon Pi Epsilon.

References

Dr. Donald L. Bitzer, Distinguished University Research Professor, Computer Science Department, North Carolina State University. *Phone*: 919-515-3998

Ms Saroj Primlani, Coordinator of University Information Technology Accessibility, Information Technology Division, North Carolina State University. *Phone*: 919-513-4087 *E-mail*: saroj_primlani@ncsu.edu

Dr. Matthias Stallmann, Associate Professor, Computer Science Department, North Carolina State University. *Phone*: 919-515-7978 *E-mail*: matt_stallmann@ncsu.edu