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education

University of Texas at Austin

B.S., Turing Scholars Honors Computer Science
M.S., Computer Science, minor in Cognitive Science

August 2005 - Present

May 2009
May 2010

GPA: 3.82

Substantial Coursework Projects:

- ▶ Autonomous Robotics (graduate) - trained robotic dogs (Sony AIBOs) to play RoboCup soccer
 - Developed SLAM (Simultaneous Localization and Mapping) algorithms using laser/sonar data
- ▶ Autonomous Multiagent Systems - designed RoboCup soccer team (simulated league) using genetic algorithms/reinforcement learning
- ▶ Operating Systems (honors) - designed and implemented a bootable, Unix-based x86 operating system
- ▶ Natural Language Processing (graduate) - design and comparison of Word Sense Disambiguation techniques using unsupervised, semi-supervised, and fully supervised learning
- ▶ Computer Architecture (honors) - fully designed a pipelined processor in Verilog
- ▶ Network Security and Privacy - implemented buffer overflow, cross-site scripting, cross-site request forgery attacks

Additional Relevant Coursework:

Machine Learning (graduate), Cognitive Science (graduate), Algorithmic Game Theory (graduate), Cryptography (graduate), Programming languages (honors & graduate), Algorithms (honors)

awards and accomplishments

- ▶ Motorola Endowed Scholar, Fall 2007 – Spring 2009
- ▶ Director of the Campus Technology Agency, Spring 2007
- ▶ Single national recipient of the Käthe Wilson Memorial Scholarship to study in Germany, 2005
- ▶ Designed and coordinated a national live webcast of speech by U.S. Senator
- ▶ Freshmen Research Initiative, algorithmic game theory
- ▶ Chosen as peer tutor in computer science “Data Structures and Algorithms” course
- ▶ The University of Texas honors list, Fall 2005 - present

experience

TRACLabs, Inc.

Houston, TX

Summer 2009 - Present

Intern/Programmer

- ▶ Designed and built an autonomous wheeled robot from the ground up
- ▶ Designed software architecture, using Player/Stage/Gazebo
- ▶ Integrated a wide variety of sensors, such as LIDAR, Laser rangefinders, thermal sensors, infrared rangefinders, microphones, and cameras

Research in Human-Robotic Interaction

Spring 2008 - Present

Undergraduate Honors Thesis/Ongoing Research

Advisor: Peter Stone

- ▶ Exploring novel imitation learning with motion-capture laboratory, multiple robot platforms
- ▶ Submitted work to major A.I. conference (still under review)

continued on other side

experience (continued)

Amazon.com **Seattle, WA** **Summer 2008**

Software Development Engineer Intern

- ▶ Implemented a major student-oriented textbook promotion using Amazon Prime
- ▶ Experience working with service-oriented architectures (Java/C++), dynamic page generation
- ▶ Dealt with large-scale reliability and latency constraints
- ▶ Summer work was responsible for over 50,000 sign-ups in two months

NSF Research Experience for Undergraduates **Charlottesville, VA** **Summer 2007**

Computer Applications in Medicine, Research Fellow

University of Virginia Computer Science / Medical Center

- ▶ Research project: "Portable, Inexpensive and Unobtrusive Accelerometer-based Geriatric Gait Analysis"
- ▶ Worked closely with a physician, designing and implementing medical applications using machine learning/signal processing techniques

Applied Research Laboratories **Austin, TX** **June 2006 - May 2007**

Senior Student Associate

- ▶ Research and Development – Java, Java3D, CORBA, XML
- ▶ Prototyped 3D desktop environments, created various testing utilities and front-ends
- ▶ Department of Defense Secret security clearance

New Standard Web Design **Amarillo, TX** **May 2005 - Dec. 2006**

CEO/Lead Designer

- ▶ Designed and maintained websites for the small-to-medium business marketplace

skills

Programming

C/C++, Java, C#, Objective-C/Cocoa, Lisp, Perl, Python, MATLAB, Verilog, VHDL, Javascript, PHP, SQL, HTML, XML, CSS

Operating Systems

Linux (Debian, Redhat, Gentoo, Ubuntu), OS X, Windows 95-Vista

Administration

Basic networking/network security, TCP/IP, 802.11x, LAN administration

interests and activities

Artificial intelligence/robotics, human-computer interaction, computers in medicine, multiagent systems, network security, organic chemistry, game theory, German, politics, cello and guitar

Affiliations:

- ▶ Austin Villa Robotic Soccer Team
- ▶ Sat on the Information Technology Advisory Committee, Spring 2006
- ▶ Student Government Technology Liaison, 2006 - 2007
- ▶ Reading group member: Reinforcement Learning, Agents that Learn from Humans
- ▶ Association for Computing Machinery
- ▶ University Democrats
 - Served as webmaster for 2 years – designed state of the art website and database handling over 1,900 members
- ▶ Science Undergraduate Research Group