Jodyann Coley

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EDUCATION

Massachusetts Institute of Technology Cambridge, MA
Candidate for MEng in Electrical Engineering & Computer Science, June 2010
BS in Electrical Engineering & Computer Science / Minor in Business Management, June 2009 GPA: 4.5/5.0
Relevant Courses: Lab in Software Engineering, Computer Systems Engineering, Artificial Intelligence, Human Intelligence Enterprise, Algorithms, Linear Algebra, Mathematics for Computer Science, Signals and Systems, and Microelectronic Devices and Circuits

RELEVANT PROJECTS

MIT Media Lab Undergraduate Research Opportunities Program (UROP) (January 2009 – May 2009) Cambridge, MA

- Implemented an automatic software update functionality for devices that use Comm.unity (a platform that implements a wireless, device-to-device information system that bypasses the need for centralized servers).
- Designed and implemented an additional transport for Comm.unity using Bluetooth and Twisted's asynchronous architectures.

MIT Media Lab UROP (January 2008 – May 2008) Cambridge, MA

- Improved the user interface of the Computer Clubhouse Village website by using new Web 2.0 features.
- Added the ability for users to find related content by implementing tagging functionality to the core objects on the Village.

Gizmoball Game Design Project (Spring 2007) Cambridge, MA

- Worked cooperatively with 3 team members to develop a program that plays a three dimensional version of pinball, with the advantage of allowing users to construct their own Gizmoball machine layout, placing bumpers, flippers, arbitrary number of balls, etc. onto the playing field.
- Designed the board, including constraints on object locations, and the back-end engine of the system, including resolving collisions and activating other gizmos.

MapQuick Design Project (Spring 2007) Cambridge, MA

- Individually built a mapping system for obtaining directions between locations in Boston and Cambridge.
- Tested, profiled, and enhanced the efficiency of my system, and also designed user interfaces.

MIT's Autonomous Robot Design Competition – 2nd Place Winner (January 2007 – February 2007) Cambridge, MA

- Led the designing, building, and debugging aspects of the team's robot, enabling me to learn about robotic design.

EXPERIENCE

Oracle: Support Platforms Intern (June 2009 – August 2009) Redwood City, CA

- Implemented a prototype for Oracle's search engine, using semantic search capabilities.

Autodesk: Civil 3D Software Development Intern (June 2008 – August 2008) Manchester, NH

- Identified algorithms for surface operations that reduced performance in the Civil 3D system.
- Designed new external memory algorithms that decreased the number of disk I/O operations and took advantage of the memory-mapped file structure for storing surface information.
- Developed software to help engineers in the debugging process and an application that assisted in gathering performance results.

JPMorgan Chase: Athena Application Development (Athena AD) Intern (May 2007 – August 2007) New York, NY

- Defined requirements and formatted end-of-day export and audit reports of market data.
- Increased efficiency in exporting market data needed at each end-of-day.
- Reconciled market data feeds created out of the Athena and MUREX platforms for the Athena Integration project.

JPMorgan Chase: Technology and Operations Intern (June 2006 – August 2006) New York, NY

- Executed the phases of the deployment process, with firm wide deployments.

SKILLS

- Programming Languages: Java, Python, Lisp, C++, HTML, and Ruby on Rails