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John Asmuth

seeking internship

Objective

Internship dealing with Software Engineering, Visualization, Applications of AI

Skills

Java, C/C++, Python, SQL
Networking, Relational databases, Java GUI
Graph theory, system design, software engineering

Education

Rutgers University **BSc – Computer Science** May 2004

Rutgers University **PhD – Computer Science** ongoing

Projects

XPilot AI @ CIG2k7 (At Rutgers, graduate research)
Member of a group to create an agent to play the game xpilot for a competition at the Computer Intelligence in Gaming conference (CIG2k7)

Semantically Based Relation Extraction (At Sarnoff Corp.)
Designed and wrote utilities to extract relations between pairs of concepts in natural language using a recursive grammar.

Strategic Assessment Display (At Sarnoff Corp.)
Visualization of combat scenarios and assessment of friendly and enemy threat.

Game Development (At Rutgers, undergraduate coursework)
Led a group of five to create a 2D networked space combat game in Java. Responsible for core game engine, graphics and net code.

Simulation Environment (At Rutgers, research assistant)
Used a colleague's standalone PPDDL (Probabilistic Planning Domain Definition Language) simulator written in C++ and split it into client and server parts for use with a competition. Created generators for competition scenarios.

Employment History

Consultant 2004–2005
Sarnoff Corporation / Vision group
Visualization and Natural Language Processing applications

Research Assistant 2003–2004
Rutgers University / Michael Littman
Programming work for the Probabilistic Planning track of the International Planning Competition (IPC 2004)

Programmer Summers
Princeton University / Cognitive Science Lab 2000–2002
Java GUI and lexicographical utilities for WordNet

Intern Summer
Sarnoff Corporation / Adaptive Signal Processing group 1999
C++ / MFC GUI application for SAPI (Speech API)

Hobbies

Game Development and AI, Rock Climbing, Guitar

References

Available upon request