Anis Zaman

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Education

Bard College
 Expected in May 2013

Bachelor of Arts in Computer Science; GPA: 3.81/4.0

Work Experience

• Software Engineer Intern at KAYAK Software Corporation

May 2012—Aug 2012

Worked as a Software Engineer on multiple projects such as, personalized search results, flight accuracy and software maintenance.

• Academic Tutor at Bard Academic Resource Center, Bard College

May 2010—Present

Dedicated tutor for all computer science classes

Tutoring 'Pre-calculus', 'Calculus- II', 'Differential Equation and 'Linear Algebra' classes

• Research Assistant at Cognitive Systems Lab, Bard College

Aug 2012— Dec 2013

Worked on a project to derive accurate English phrase-level alignments for the basis for training a machine translation system that translates complex to simplified text.

• Research Assistant at Drab Lab, Bard College

May 2010— Present

Worked on multiple mixed-reality interaction, human robot interaction projects, using mobile robot and projector-camera systems.

• Computer Technician and Lab Monitor, Bard College

Aug 2009— Present

Install and maintain Computer Hardware, Software and Networks

Technical Skills

High level languages: Java, C, Mathematica, Prolog, SML
 Development tools: Velocity's Model View Controller, Eclipse

Scripting language: Python, SQL, JavaScript, Bash, Html, XPath, PHP

• Operating System: Windows, Linux, Mac OS

Database: MySQL

• Others: Photoshop, Flash, MS Office

Important Courses:

 Robotics and Vision: Object Oriented Programming with Robots, Intelligent Robotics, Computational Image, Reinforcement Learning

• **Systems:** Operating System, Databases Systems, Embedded Systems

Networking: Distributed Systems

- Theory: Data Structures, Algorithms, Design of Programming Language, Theory of Computation
- Mathematics: Calculus III, Probability, Differential Equation, Linear Algebra, Proofs and Fundamentals, Dynamical System, Discrete Mathematics, Real Analysis

Publication and Presentation

- Strauss, A.; **Zaman, A.**; O'Hara, K. J. 2010. The IMP: An Intelligent Mobile Projector. *In Proceedings of the Conference of Association for the Advancement of Artificial Intelligence, Atlanta, GA.*
- Presented "The IMP: An Intelligent Mobile Projector" at the 23rd Annual Saint Joseph's University Sigma Xi Student Research Symposium—April 2012, Philadelphia, PA.

Course Projects

Computer Vision

Multi-touch Surface: Using the principle of frustrated total internal reflection, blobs detection, rendering and multiple finger tracking algorithms, this is a platform that has been built using Microsoft Kinect, Infra-red LED and acrylic glass sheet. were used to interact with the surface.

Artificial Intelligence & Networking

3D Maze exploration: An online 3D maze exploratory game that can be played by multiple human player/bots from remote location using TCP. The central maze map is located at a remote central server. Breadth first search algorithm and A* algorithm is implemented for exploring the maze by both human players and the bots.

Research Experience

• Senior Thesis, Bard College

Sep 2012-May 2013

Project: "Sentence Similarity"— Using WorldNet, Stanford Parser, and a Graph Based Word Sense Disambiguation techniques, the goal is to extract as many English sentence pairs from two seemingly similar text in order to create a large corpus of aligned sentence pairs.

Advisor: Professor Rebecca Thomas

Harvard University, RoboBees Lab, Cambridge, MA

Jun 2011—Aug 2011

Project: "Construction of a Quad-Copter"—There are many quad copter designs out there, but none are small enough to be used as a proxy for an insect scale flying robot. The goal of the project was to build a small enough quad-copter from scratch, which could be used for flight test of robotic bees.

Advisor: Professor Greg Morrisett and Jason Waterman

Bard Summer Research Institute Fellow, Bard College

Jun 2010—May 2011

Project: "The IMP: An Intelligent Mobile Projector"—A platform for mixed-reality interaction, human robot interaction, using a mobile robot and projector-camera system.

Advisor: Professor Keith O'Hara, Drab Lab

Leadership and other Activities

- Residential Adviser (RA) at Bard College
- · Co-Founder of Robotics Club at Bard College
- Teach python programming to high school students at Red Public Hook Library at NY

Honors/Awards

Distinguished Scientist Scholarship, Bard College Aug 2009—present

Research Experiences for Undergraduates Award, Harvard University

Jun 2011—Aug 2011

Bard Summer Research Institute Fellowship, Bard College
 Jun 2010—May 2011

Current Visa Status: F-1, student visa