Abhishek Pradhan

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EXPERIENCE

Microsoft Corporation   Bellevue, Washington
Software Development Engineer II, Bing – Core Search Platform   August 2011 – Present
Core Search Technologies
- Responsible for the development of various components that are part of the search ranking infrastructure
- Shipped a major infrastructure overhaul of the search backend ranking platform
- Implemented performance improvements targeted towards reducing latency and improving query serving capacity
- Extended backend functionality to support entity search capabilities
- Implemented a new operator in the Bing query language

Programming Languages and Compilers
- Designed and developed a domain specific language for relevance developers
- Implemented search ranking algorithms in this language to evangelize usage amongst the relevance teams on Bing
- Proposed and implemented language artifacts and extensions in order to support greater functionality and ease of use

Release Management and Operations
- Managed various monthly and weekly releases of the backend platform
- Developed monitoring components designed to be part of the release workflow
- Managed external team integration into automated release and deployment workflows
- Responsible for release qualifications related to relevance in the ranking infrastructure team

Software Development Engineer Intern, Bing – Core Search Platform   June 2010 – August 2010
- Developed a domain specific functional programming language targeted towards relevance developers
- Extended the core language library to interface with algorithms used to generate captions on the search result page

Database and Information Systems Laboratory   Urbana, Illinois
Undergraduate Research   December 2008 – May 2010
- Developed methods to improve focused crawling techniques concerning specialized datasets for vertical search engines
- Implemented algorithms to scrape relevant information from the internet while minimizing bandwidth usage

Department of Computer Science   Urbana, Illinois
Undergraduate Teaching Assistant - Introduction to Computer Science   January 2008 – December 2009
- Taught introductory material relating to topics such as object oriented programming and recursion
- Led a discussion section that supplemented coursework covered during lectures

Programming Languages   *Commonly Used*: Java, C++
                                 Previously Used: C, C#, Python, OCaml, MIPS, Scheme, SQL

NOTABLE PROJECTS

Illinois Phone – *Team Lead*
- Led a team of 3 students to build a Windows Phone application designed to enable time sharing of computing resources
- Developed a cloud component hosted on Google App Engine and a desktop component that interacted with Active Directory Services on Windows
- Granted awards sponsored by Microsoft Research and the Siebel Center Computing Habitat Competition

EDUCATION

University of Illinois at Urbana – Champaign   May 2011
Bachelor of Science in Computer Science - Graduated with Honors   GPA: 3.59/4.0

AWARDS and HONORS

- Microsoft Research – Project Hawaii – Most Innovative Application (2011)
- Siebel Center Computing Habitat Competition - Judge's Prize (2009), Second Place (2010), Best Presentation (2010), Grand Prize (2011), Best Use of Mobile Devices (2011)
- Yahoo Hack Day – Second Place (2009)
- Dean's List