Jason Carter

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EDUCATION

University of North Carolina at Chapel Hill, Expected 2012
3rd year Ph.D. Student, Computer Science
Advisor: Prasun Dewan
Research Area: Collaborative Software Engineering

Lynchburg College, January 2007
B.S. in Computer Science, GPA 3.54, *Cum Laude, High Honors*

Central Virginia Community College, May 2003
Associates in Applied Sciences, Electronics Technology, GPA 3.50, *Cum Laude*

AWARDS

AGEP Fellowship

SOFTWARE SKILLS

Programming Languages:

Advanced: C#, PHP, Javascript, HTML
Intermediate: ASP.NET, Java , C++
Some: Windows Presentation Foundation

IDEs: Visual Studio.NET 2005 & 2008, Eclipse
Database Systems: MySQL, MSSQL, PostgreSQL

RESEARCH EXPERIENCE

Intern (HIP Group), Microsoft Research, Summer 2010

- Implemented an awareness user interface that shows team information from various repositories (Exchange, TFS, and Product Studio).
- Designed and performed a series of interviews to elicit the intra-coordination needs of users in software development teams.
- Designed a visualization that allows agile development teams to track the progress of their projects.

Graduate Research Assistant, UNC-Chapel Hill, June 2008 – Present

- Developed a Visual Studio and Eclipse add-in that logs users' programming actions.
- Mined logs of users' programming actions using machine learning algorithms to find patterns that indicate when users are having difficulty programming.
- Integrated machine learning algorithms with Visual Studio and Eclipse add-ins. This integration allows the algorithms to predict when users are having difficulty.
- Integrated Google Talk, Google Docs, and a VNC Client with the Visual Studio and Eclipse add-in. This integration allows distributed programmers to instant message, share code, and share screens with each other.

Research Experience for Undergraduates, Princeton University, Summer 2005

- Gained experience using research methods drawn from the mathematical and physical sciences to advance molecular-level understanding of biological systems.
- Simulated biological circuits using MATLAB to get results that indicated if the circuits worked as planned.
- Led team presentations on the progress and future of circuit simulations.

WORK EXPERIENCE

Benchmark Systems, .NET Developer, Jan. 07 – June 08

- Maintained and organized company website and web applications using Cold Fusion, PHP, and MSSQL on Linux and Windows servers.
- Developed three-tiered object-oriented web and desktop applications that consumed web services using C#, ASP.NET and PostgreSQL.
- Worked effectively as a team member.

Independent Consultant/Web Developer, Sept. 05 – June 07

- Worked with clients to develop system specifications and design using Agile methods.
- Designed and implemented PHP web applications with a MySQL database.
- Provided IT services (computer repair) to Lynchburg College students, faculty, and staff.

Intern, BWX Technologies, Summer 2006

- Developed web applications and smart clients that consumed web services using ASP.NET and C#.
- Developed web services that connected to database management systems including MS Access and MSSQL.
- Held a temporary restricted security clearance from the Department of Energy.

PUBLICATIONS

Conference Proceedings (Acceptance Rates Given When Available)

Jason Carter and Prasun Dewan, "Design, Implementation, and Evaluation of an Approach for Determining When Programmers are Having Difficulty" Group 2010.

Jason Carter and Prasun Dewan, "Are You Having Difficulty?" CSCW 2010. February 2010. (Acceptance ratio = 0.2)

Workshop Proceedings

Jason Carter and Prasun Dewan, Automatically Identifying that Distributed Programmers are Stuck, IEEE ICSE CHASE (Cooperative and Human Aspects of Software Engineering) Workshop, May 2009.

Video Proceedings

Jason Carter and Prasun Dewan: A Tool Allowing Software Engineers to Automatically Determine if Remote Team Members are Stuck. CSCW February. 2010 Videos.

CONFERENCE DEMONSTRATIONS

Jason Carter and Prasun Dewan: A Tool Allowing Software Engineers to Automatically Determine if Remote Team Members are Stuck. CSCW February. 2010 Demonstrations.

REFERENCES

Available upon request.