Jeremy S. Brown

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RESEARCH INTERESTS

Networks & Distributed Systems, Operating Systems & System Programming, Mobile Software Development, Computer Science Education

EDUCATION

Master of Science, Information Technology
Florida Institute of Technology   Melbourne, FL

Bachelor of Science, Computer Science
Rochester Institute of Technology   Rochester, NY

CURRENT EXPERIENCE

2010 – Present, Computer Science Department, Rochester Institute of Technology   Rochester, NY

Lecturer / Adjunct Professor
Taught classes for the computer science department at Rochester Institute of Technology

- Courses Taught:

    - CS1, CS2, CS3, CS for AP, Data Communications & Networks I, Operating Systems, Programming Language Concepts, Operating Systems II, Computing for Engineers, Programming Skills (C#), Computing for Engineers, Intro to Big Data

- Courses Developed:

    - Operating Systems II – Designed project based course to develop Xinu operating system on Raspberry Pi platform.

- Evaluation Excerpts
    - "The professor did a great job teaching this course…"
    - "Overall I really enjoyed this class. Professor Brown was one of my favorite teachers that I've had so far at RIT…"
    - "He was very good, one of the best instructors I've had. He made it interesting, and the projects were awesome.
    - "As far as Operating Systems courses go, this one was superior to any other OS course my friends have had…"
    - "Professor Brown is a great instructor, he keeps the lectures fun and interesting…"
    - "I took this class previously with another professor, and it did not make any sense to me. Although I still struggled with some of the concepts this time, I was able to understand things much better this time around thanks to the instructor's teaching methods."
    - "I thought this class was well put together, I've recommended it to my friends who need to take Operating Systems."
    - "The instructor was awesome. His teaching style was very likeable. He was approachable and If i had more time I would take every class with this instructor.. He was awesome.." (sic)

SERVICE WORK

- Led development of iPhone application for Veterans Administration Hospital in order to study suicide prevention primarily focusing on soldiers returns from active duty who are experiencing PTSD.

- Member of Poster Committee for CCSCNE 2014 conference.

- CCSCNE 2013 panel chair.

- CCSCNE 2014 Poster committee member.

- Taught MBS Stem classes for City of Rochester School District. Program to introduce city school children to STEM fields.

- Assisted in running of regional ACM competition at RIT (2010-present)

- Served on committee to elect undergraduate commencement delegate

- Judged ACM contest

TRADE JOURNAL ARTICLES

Brown, Jeremy, "Crash Proof, Understanding Peter Schiff's Take on the Economic Collapse" from Technology Professional,
http://www.technologyprofessional.org/tpv2/2009/community/reading/review-of-peter-schiffs-crash-proof/

Brown, Jeremy, et al. "Windows 7 Review"; Rochester Business Journal, December 18, 2009, Vol 25, No 38, p. 28

RELATED EXPERIENCE

2011 – 2012, Callfinity/M5 Networks/Shortel Networks   Rochester, NY
Hosted VOIP phones delivered to small and medium sized companies, along with custom solutions for call centers. Lead Windows developer for agent desktop systems allowing customers to better service their clients through telephone support.

Lead Software Engineer
- Created a new platform for delivering telephone statistics on the desktop to the customer, allowing for simple configuration through XML updates.
- Worked in Erlang, PHP, C# and C++ to integrate an *Audiocodes* call recording module into existing platform to allow customers to audit phone calls.

2010 – 2011, Paychex   Rochester, NY
Delivering payroll and human resource services to small and medium sized companies, Paychex is the leader in customer service and innovative products to support small businesses.

Developer IV
Development leader and single point of contact for development team of 12 people, for products in C#, ASP.NET, Java, and Adobe Flex. Responsible for managing development teams and creating schedules and build plans while integrating with other development teams, testing and infrastructure teams.

- Introduced automated unit tests into Human Resources Online platform leading to a decrease in bugs by 10%

- Led a team of 12 and a team of 3 in a portion of a 7-year initiative designed to support Paychex products for the future.

- Member of IT recognition committee who coordinated presentations for peer recognition ceremonies and photographed events.

2008 – 2010, Hubbard One (Thomson Reuters)   Rochester, NY
Leading information, decision support tools and services for legal, intellectual property, compliance, business and government professionals throughout the world, with over 50,000 employees worldwide.

Senior Software Engineer
Team member in teams of 4-18 people tasked with delivering enterprise level web applications using ASP.NET 3.5, C#, Java and Oracle to 200 of the top 250 law firms in the United States, using a Web 2.0 platform frontend and an Oracle Data mart as a backend. Made extensive use of agile/scrum, test-driven development, and code reviews in order to deliver quality, user-friendly code.

- Doubled data accuracy of searching by processing upwards of 75,000 XML files every eight hours into an Oracle 10g database for loading as search parameters.

- Increased data quality by 30% by writing queries against proprietary XML based database system of SEC filings to search for companies by URL, name, stock ticker and address.

- Led team of 5 developers that rewrote the UI for project with $2 million revenue in the 6 weeks prior to release using agile/scrum, including adding web 2.0 components (Ajax components added to the application).

- Enabled Monitor Suite to be marketed to law firms that would not have otherwise bought the product by integrating Contact Networks (a data mining package that analyzes email to determine relationships between people) with Monitor Suite (a competitive intelligence platform for law firms).

2000 – 2008, Thomson Reuters   Rochester, NY

Senior Software Engineer
User interface developer on several enterprise level web applications marketed toward law firms' marketing and research divisions, in addition to smaller PC based research applications which were designed to used offline. Products were developed using ASP.NET 3.0, ASP.NET 2.0, C#, HTML, JavaScript, Ajax, CSS, JSON, web services, Visual C++ 6, PHP and Perl

- Saved company $100,000 in licensing fees by creating reusable UI tree control in JavaScript that met customer requirements.

- Increased usage of our flagship product by 10% by developing UI for alerting infrastructure that enabled customers to do custom queries against hundreds of databases.

- Strengthened revenues of CD-ROM products by converting a 16-bit (VC++ 1.0), 7 year old application to a 32-bit platform (VC++ 6.0), allowing the product to again be marketed and sold.

- Took over project with a 10-week timeline and delivered 3 weeks early after it had fallen 4 weeks behind.

Feb 2000 – Sep 2000, Thomson West (Thomson Reuters)   Rochester, NY

Test Engineer
Performed automated and manual tests against products that created forms for law firms to deliver accurate, usable products to the customer.

- Reduced testing cycle by half by creating new methodologies to ensure forms met government specifications using automated procedures.

- Delivered products to customers early by using SQA Robot to create test scripts to automate testing.

1998 – 2000, West Group (Thomson Reuters)   Rochester, NY

Software Engineer
Developed products to create customize forms for law firms that could be scanned by the required courts. These products enabled law firms to take on more clients by reducing the time taken to create the forms. Technologies used included Borland Delphi, Microsoft Visual C++ 6 and Microsoft SQL Server/Access

- Ensured several products were delivered on time by context switching between platforms and products to deliver functionality for each of them.

- Prevented need for staffing increases of customer service representatives by creating administrative system for a web application that allowed customers to manage their own account, rather having to call the customer service representatives.