Marty Piecyk

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Objective

Software Development Engineer interested in large-scale, distributed systems

Technical Skills

Languages: C#, PowerShell, SQL, Java, C++, C, Ruby, Python

Internet Technologies: HTML5, CSS, JavaScript, Azure, OData, AJAX, Kendo UI, Razor, ASP.NET, Java Servlets

Databases: Microsoft SQL Server, Azure SQL Database, MySQL, PostgreSQL, Oracle, SQLite

IDEs: Microsoft Visual Studio, Eclipse, NetBeans, PowerGUI

Operating Systems: Microsoft Windows 7-10, Windows Server 2008-2012, Ubuntu 16, Fedora 24

Experience

Microsoft Corporation: Office 365 Security, Redmond, Washington
Software Development Engineer (Full-time employee), May 2012 to present

- Architected with team, implemented, tested, deployed, and maintained system for using Microsoft Cosmos (similar to MapReduce) to upload ~30 GB of vulnerability and host scan data each day from BeyondTrust scanners, process the scan data ~60x faster than the previous single-threaded system, and generate security reports of all hosts in Office 365 in ~2 hours about twice a day
- Installed and configured ~300 scanners in Office 365 across ~50 environments with BeyondTrust (to replace the previous scanning provider) and other required components with automation to scan ~500,000 hosts in Office 365 approximately daily
- Designed, implemented, wrote tests with TDD and ~100% code coverage, and deployed OData feed to provide access-controlled, up-to-date, indexed, highly available vulnerability reports from Microsoft Cosmos and Azure SQL Database for environment teams
- Helped the environment teams get frequent scan results so they could patch machines, confirm vulnerabilities were fixed, deliver vulnerability reports to auditors, and pass audits successfully for contracts up to $1 billion in value
- Designed and created a website for the environment teams and the Exception Approval Board to manage exceptions for vulnerabilities showing up as false-positives using HTML5, Razor, and the Kendo UI and no code or performance bug has been opened against it since deployed

Microsoft Corporation: Office 365 Commerce, Redmond, Washington
Software Development Engineer (Full-time employee), July 2010 to May 2012

- Designed, created, and deployed five features for the commerce system for Office 365 and other online services using C#, ASP.NET, and SQL Server, all of which had tests and no code bugs opened against them after being deployed to production, which were: detection of fraudulent orders, additions to database schema and web service to support South Korea, support for European Portuguese and other internationalization changes, creation of statistic pages in the customer support tool, and security role enhancements for the customer support tool
- Proactively searched for, opened, and fixed approximately 200 bugs in production code, including security bugs, production issues, bugs in new features, customers with invalid data in production, and a lack of any offsite backup system of the production database
- Reduced the billing system deployment time from 3 hours to 1 hour, saving hundreds of hours on the check-in queues and ~50 team members' VMs

Amazon.com Incorporated: EC2, Seattle, Washington
Software Development Engineer (Full-time internship), March 2008 to September 2008

- Designed and implemented a scalable, automated abuse reporting system using Java, XHTML, CSS, JavaScript, Amazon SimpleDB, S3, and queue processing for EC2 which allows abuse reporters to anonymously submit abuse reports against customers of EC2 and communicate with the customers and members of the EC2 abuse team until the case is resolved
- Created an automated Ruby script which validates the firewall rules of production EC2 instances by verifying that the rules match the CIDR block and group rules specified by EC2 customers

Microsoft Corporation: Live Labs, Bellevue, Washington
Software Development Engineer (Full-time internship), March 2009 to September 2009

- Created server-side applications using C# to download content and generate collections for Microsoft Pivot, an application which allows users to browse large collections of visual items
- Designed and implemented a component of Pivot that recommends Pivot collections when related to the web page a user is viewing

Education

Drexel University, Philadelphia, Pennsylvania
Bachelor of Science in Software Engineering, June 2010, Cumulative GPA: 3.77