

James David Ryseff

james.ryseff@gmail.com

Education

- Graduated from the Security Studies Program at Georgetown University. Received a Masters of Science degree in Security Studies.
- Graduated from the Engineering College at the University of Illinois Urbana-Champaign with a GPA of 3.69. Received a Bachelor of Science degree in Computer Science in May 2004 with minors in mathematics and history.
- Dean's List at University of Illinois - Fall 2000 – Spring 2003
- Experience in C#, C++, Java, Scala

Work Experience

RAND

January 2018 - present

Technical Policy Analyst IV

Google

October 2016 – December 2017

Technical Lead

Member of Bizapps Finance team. Led projects to categorize Alphabet's various subsidiary corporations and manage related data. Also led project to modernize and expand Plutus, a calculation and payments engine for Google contracts.

Concur

September 2013 – April 2016

Software Development Manager

Manager of a team of 3 developers. My team owns the Itinerary Service (a standalone service that stores and retrieves trip information) and its associated APIs, E-Receipts (ETL process to match financial information received from car and hotel vendors to customer trips), and supports the interaction of the products Shop and Book experience with the Apollo/Galileo Global Distribution Systems

Globys, Inc

February 2012 – July 2013

Senior Software Design Engineer

- Globys has two main business units. The first provides analytics for corporate customers of telecom companies to help them understand and manage their expenses. The second utilizes data mining techniques in order to provide targeted contextual marketing aimed at increasing revenue per customer.
- Worked in the Analytics business unit to prototype transitioning to a modern technology stack (ASP.NET instead of Visual Basic / COM). Explored creating a

Data Access Layer / Object Model / UI partitioning of the source code in order to increase code maintainability and factor out client specific business logic from core components.

- Transferred to the Contextual Marketing business unit to assist in completing development of their transformation language and to explore transitioning to distributed storage and query technologies (hadoop/PIG/Hbase)

Spoken Communications

July 2011 - January 2012

Software Engineer, Infrastructure

- Spoken Communications is a provider of telephony infrastructure in the cloud. It builds software to enable virtual call centers, where agents may work remotely or at a dedicated site. It also provides automated call flows to direct callers and uses voice recognition to guide callers more effectively.
- Responsible for stack validation and alerting
- Created tools to validate new call scripts by automatically generating simulated callers.

Microsoft Corporation

June 2004 - August 2010

Software Design Engineer II, Project Cosmos

October 2007 - August 2010

- The Cosmos project is a distributed computing platform used to store and query the massive amounts of data collected by the Bing search engine in a reliable and efficient way.
- Responsible for the Process Node service, which controlled the execution of query logic on individual nodes of the system. Implemented features to reduce cluster downtime and improve system responsiveness to important customer jobs
- Responsible for eventing infrastructure and analysis of cluster through metrics. These measurements were the primary way that cosmos management presented the state of the project to higher authorities.
- Prototyped feature to improve cluster throughput and fairness by dynamically allocating cluster capacity amongst running jobs. Experiments showed a doubling of jobs completed in a given time relative to previous implementation.

SDET II, Microsoft Sync Framework

June 2006 - October 2007

- The Microsoft Sync Framework is a transport agnostic architecture that can be used to synchronize data across multiple data stores.
- SDET on the core engine team responsible for creating extensible provider implementation that was used as the basis for all other test team providers.
- Created a managed-only synchronization engine that was compatible with the APIs exposed by an existing managed wrapper over the native Microsoft Sync Framework engine, but resulted in a 50% reduction in time needed to perform core operations. This engine was adopted by the team for use by partners who needed an all-managed solution.

- Responsible for educating test and dev team in core concepts through brown bags and tutorial documents.

Software Design Engineer in Test, WinFS

June 2004 - June 2006

- The WinFS project was part of the Longhorn project (which ultimately became Windows Vista). It was intended to replace the existing NTFS file system with a relational database until its cancellation in June of 2006.
- SDET on the base team for WinFS from June 2004 to June 2006.
- Responsible for testing the Store API, Watcher API, and security test groups. This included creating a test library to model the core WinFS concepts and simulate the behavior of the core components, then creating or updating test cases as functionality changed over the life of the project.

Volunteer Experience

King County Fire District 20

January 2006 - present

- KCFD20 provides fire protection and emergency medical services to unincorporated King County in between the cities of Seattle, Tukwila, and Renton.
- Lieutenant / shift commander from October 2009 to present. Responsible for shift training, personnel assignments, and on-scene command.