Dave Stensgaard

Senior Software Engineer

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# Skills & abilities

* **Cloud Computing**: Expertise in deploying and managing applications on Azure, including cost optimization and scaling.
* **System Reliability and Performance**: Proven track record of improving system reliability and performance, achieving high availability and reducing costs.
* **API Development**: Skilled in designing and developing APIs and Windows services to support various applications and platforms.
* **Technical Problem-Solving**: Strong debugging and problem-solving skills, with a focus on identifying and resolving complex technical issues.
* **Continuous Integration/Continuous Deployment (CI/CD)**: Proficient in using tools like Azure DevOps and Visual Studio Team Services (VSTS) to automate build and deployment processes.

# Experience

## Microsoft | Senior Software Engineer Jun 2018 - Present

* Contributed to the design, development, and scaling of a highly reliable, cost-efficient, and fully Azure-deployed internal service responsible for sending customer-facing emails across Microsoft, utilizing standard cloud-native resources to ensure scalability and performance.
* Drove email throughput growth from 90M to over 1B emails per month over 7 years.
* Improved system reliability from 99% (2 nines) to 99.999% (5 nines) availability.
* Reduced cost per thousand emails by 50% through optimization and use of Azure-native services.
* Founding engineer on the team; onboarded and mentored new engineers as the service and team scaled.

## Alaska Airlines | Staff Software Engineer Jan 2017 - Jun 2018

* Enhanced and maintained functionality across the www.alaskaair.com platform.
* Provided mentorship and technical guidance to engineering colleagues on advanced software development methodologies and design patterns.
* Leveraged Visual Studio Team Services (VSTS) to develop, edit, and manage CI/CD pipelines for Azure deployments on both new and existing projects.
* Architected and implemented a service delivering baggage allowance information to customers during the flight check-in process.
* Developed a generic promotions template system enabling the content team to independently create new promotions without developer intervention.
* Designed and deployed a user-initiated, fault-tolerant system facilitating secure electronic fund transfers from Virgin to Alaska.

## Groundspeak | Lead Developer Mar 2011 - Jan 2017

* Enhanced and maintained features for geocaching.com, its API, and internal tools.
* Promoted best development practices across engineering.
* Drove improvements in engineering culture.
* Contributed to redesigning and deploying a new payment system for all platforms.
* Built APIs and Windows services supporting the geocaching.com game.
* Provided partner support and technical guidance for the public API.

## Continuant | Senior Software Developer Team Lead Mar 2009 - Mar 2011

* Oversaw development, deployment, testing, and source control processes.
* Built and managed a developer team handling application maintenance and new projects.
* Developed Windows services in C# 3.5 to address complex business needs.
* Led implementation of an internal ERP web app using ASP.NET MVC 2, C# 4.0, jQuery, and SQL 2008.
* Designed and deployed TFS 2008/2010 source control solutions.
* Automated builds with TFS build services.
* Provided expertise to secure Microsoft Gold Partner and ISV status.
* Created a C# 3.5 Windows Forms app that achieved Windows 7 certification for ISV qualification.

## Guidant Financial Group | Senior Developer Dec 2007 - Feb 2009

* Converted paper contracts to an electronic system via the company's production website.
* Enhanced proprietary ERP and production websites with new and updated features using ASP.NET Web Forms, C# 3.5, and SQL 2005.
* Outlined steps for implementing a continuous integration infrastructure.
* Built and maintained application build scripts with MSBuild.
* Led data migration from proprietary databases to Salesforce using SQL 2005 DTS packages, console apps, and C# 2.0 web services.
* Integrated Salesforce with internal workflow and billing systems through Apex code and C# 2.0 web services.

## Apex Wine & Sauna | Senior Developer Apr 2002 - Dec 2007

* Developed and implemented an internal Intranet application to centralize business management.
* Reduced sales proposal turnaround from 10 days to 2-3 days by streamlining the sales cycle.
* Led customer application projects:
	+ CellarSpace: ASP.NET C# 2.0 front-end communication tool with login.
	+ Wine Inventory: Web-based wine database for efficient cellar management.
	+ CellarTec: Created remote cooling system-monitoring application.
	+ CellarPod: Collaborated with R&D to develop a monitoring app compatible with and without Apex equipment.