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| [linkedin.com/in/brendangrantsd](https://www.linkedin.com/in/brendangrantsd/) | [brendan+hn@brendangrant.com](mailto:brendan+hn@brendangrant.com) | | | |
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| Brendan Grant | | | |
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| WORK EXPERIENCE | | | |
|  | Amazon | Remote | 12/2021-1/2024 |
|  | Systems Development Engineer 2 | | |
|  | Amazon Security – Enterprise Protection Program | | |
|  | * Working on a team dedicated to protection Amazon from internal threats, worked closely with internal engineering teams to expand their capabilities to expand visibility, and in many other cases built custom tools or services to enable more niche awareness * Worked closely with Forensics & Engineering team who as primacy customers, maintained and expanded software program used to meet inhouse eDiscovery & digital forensics needs, such as expanding what and how artifacts were collected * Based on reported gaps in metadata, wrote a 7-zip writer from scratch in Go to allow for the capturing and retention of MAC (modified, accessed & created) timestamps of collected artifacts * Built and supported an infrastructure as code (IaC) based system (via CI/CD) with new REST APIs to allow for automated deployment and re-deployment of inhouse forensic tool to replace earlier system which had to be manually triggered twice per day, per target until completion * Built tool to aid in internal investigations through the detection and extraction of encrypted chats to identify potential insider threats communicating with the press without authorization * Aided investigators by providing deeper technical understanding of data and methods, as well as testing of theories to verify or disprove assumptions * Tech stacks/languages: AWS (Lambda, S3, DynamoDB, SQS, EC2, VPC (NACLs & Security Groups), IAM, Cloud Formation, Secrets Manager), Go lang, Python, C#, .NET Core, PowerShell, Bash, TypeScript (CDK), Win, Mac, Linux, CrowdStrike | | |
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|  | Microsoft Corporation | Redmond, WA / Remote | 9/2018-8/2021 |
|  | Software Development Engineer 2 |  |  |
|  | Cayman | | |
|  | * Modeling of business intent for upstream populators of 3rd party offers, then transformation into common format used by most Microsoft storefronts * Built mechanism to facilitate transformation and teleportation of data for air-gapped clouds (JEDI) and handling of data on the other side * Single handedly enabled Microsoft Azure consumption commitment (MACC) to proceed on schedule when upstream teams did not have the resourcing to enable it * Rotating on call duties responsible for triaging and support of 3rd party ingestion through platform at the heart of commerce while working against SLAs * Tech stacks/languages: Azure (Functions, Storage, Cloud Services (classic), Key Vault, App Service), C#, .NET Framework & .NET Core, PowerShell, Windows | | |
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|  | Pushpay | Redmond, WA | 11/2016-05/2018 |
|  | Senior Software Development Engineer | | |
|  | * Utilized devops methodologies to plan, construct, rollout, monitor and support live site which saw charitable giving from 19 countries * Responsible for payment pipeline & recurring payment engine which processed an annualized $3 billion USD in transactions * Increased capacity for on-time recurring payments by a factor of 20x * Tech stacks/languages: AWS (Lambda, S3), RabbitMQ, C#, Razor ASP.NET, SQL Server | | |
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|  | Microsoft Corporation | Redmond, WA | 3/2008-4/2016 |
|  | Software Development Engineer 2 |  |  |
|  | *Specific projects:* |  |  |
|  | StorSimple |  | 1/2013–4/2016 |
|  | * Fully owned & ran Controller Replacement feature for 8000 series which reduced time & costs required for support engagements to support in-field devices over previous version * Prototyped fully functional SMI-S target implementation * Reverse engineered proprietary board management controller interface to build basis for centralized internal tool for tracking ownership & management of lab-based devices * Fully owned backend of OOBE for 1200 series (virtual appliance) | | |
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|  | File Server Admin Console (Windows Server 2012) | 9/2011–1/2013 | |
|  | * Owned of all of Storage Management in Server Manager * Created Disks canvas to enable formatting and management of bare disks * Drove work to support disk removal from Storage Pool in UI | | |
|  | Cluster-Aware Updating (Windows Server 2012) | 1/2011–9/2011 | |
|  | * Created cluster update run & reporting UI to enable cluster administrators to trigger update run across cluster with intelligent migration of services to eliminate downtime | | |
|  |  | | |
|  | Windows Home and Small Business Server | 1/2009–1/2011 | |
|  | * Owned Storage & Share Management UI * Built PowerShell interface for HSBS storage management * TAP (Technology Adoption Program) customer visits | | |
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|  | Windows Home Server | 3/2008–1/2009 | |
|  | * Built SDK extensions for OEMs to allow them to differentiate products * Presented at PDC & WinHEC 2008 on developer options * Active blogger & community forum contributor | | |
|  | Tech stacks/languages: C/C++, C#, WPF, WinForms, PowerShell, Windows, Entity Framework | | |
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|  | Earlier software/tech experience | 5/2001-2/2008 | |
| * Earlier work experience prior to 3/2008 removed to save space here, but visible on LinkedIn at: [linkedin.com/in/brendangrantsd](https://www.linkedin.com/in/brendangrantsd/) | | |
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| Education | | | |
|  | Dakota State University | Madison, SD | 2018-2020 |
|  | * Earned Master of Science in Cyber Defense | | |
|  | Colorado Technical University | Sioux Falls, SD | 2005-2006 |
|  | * Earned Master of Science in Computer Science | | |
|  | Dakota State University | Madison, SD | 1999-2003 |
|  | * Earned Bachelor of Science in Computer Science | | |