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**EMPLOYMENT**

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<b>Software Engineer II</b>	<b>Microsoft Corporation</b>	<b>Jan 2018 - Present</b>
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Azure Compute – Fabric Controller

- Decreased latency by 8x in distributed messaging infrastructure
- 70% reduction in single points of failure for control plane clusters through building a fault domain analysis service
- Built a capacity analysis service to proactively identify control plane machine shortages
  - Tens of millions of dollars of machines purchased based on this service
  - Analyze capacity across hardware fault domains and performance characteristics
- Built a lightweight distributed tracing framework and integrated it across services

<b>Software Engineer</b>	<b>Microsoft Corporation</b>	<b>October 2015 – Dec. 2017</b>
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OneDrive – Sync Client (Mac and Windows)

- Built a feature to help users move local content to OneDrive
- Built automatic screenshot upload for the Mac sync client
- Built a context menu for the Mac Finder that provides quick access to OneDrive features (share a link, view online, manage storage, choose folders to sync, etc...)
- Built a share dialog that allows users to control sharing options for their files without leaving Finder or Windows Explorer

<b>Software Engineer, Intern</b>	<b>Microsoft Corporation</b>	<b>Summer 2014</b>
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- Implemented notifications for users of OneDrive who have expiring/expired bonus storage

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**EDUCATION**

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<b>Pittsburgh, PA</b>	<b>University of Pittsburgh</b>	<b>Fall 2011 – Spring 2015</b>
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- Bachelor of Science (B.S.) in Computer Engineering. Cum Laude.
- Cumulative GPA: 3.49 out of 4.0

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**TECHNICAL EXPERIENCE****Personal Projects**

- **Orgman.** Automate the organization of your student organization. Production quality web app with a full test suite using continuous integration (Travis CI). Ruby on Rails. Source: <https://github.com/valleyjo/orgman>
- **MIPS CPU.** Full implementation of the MIPS instruction set. Includes five pipelines, L1 cache and interrupts. HDL Designer & VHDL.

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**Languages and Technologies**

- Proficient: C++, C#, Objective-C
- Prior experience: Java, Ruby, Python, PowerShell, .Net core, Win API, Cocoa, .Net, Ruby on Rails, git

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**LEADERSHIP EXPERIENCE**

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<b>Intern Mentor</b>	<b>Microsoft Corporation</b>	<b>Summers 2017 &amp; 2019</b>
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- Provided guidance and technical advice for an intern working on a production project

<b>Engineering Peer Advisor</b>	<b>University of Pittsburgh</b>	<b>Fall 2013</b>
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- Taught two sections of an official university course to assist freshmen with their college transition

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**HONORS AND AWARDS****Eagle Scout:** Leadership project established a computer lab at Angels' Place; Estimated benefit: \$13,500**Distinguished Young Alumni Award:** Our Lady of the Sacred Heart High School