
EMPLOYMENT

Software Engineer II	Microsoft Corporation	Jan 2018 - Present
-----------------------------	------------------------------	---------------------------

Azure Compute – Fabric Controller

- Working on a distributed messaging platform backed by Apache Kafka to scale out communications to hundreds of thousands of endpoints
- Built a service to continuously analyze control plane machine capacity accounting for hardware and fault domain requirements
- Built a service to continuously manage and analyze fault domain placement for control plane machines
- Built a lightweight distributed tracing framework and integrated it across services

Software Engineer	Microsoft Corporation	October 2015 – Dec. 2017
--------------------------	------------------------------	---------------------------------

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

Software Engineer, Intern	Microsoft Corporation	Summer 2014
----------------------------------	------------------------------	--------------------

- Implemented notifications for users of OneDrive who have expiring/expired bonus storage

EDUCATION

Pittsburgh, PA	University of Pittsburgh	Fall 2011 – Spring 2015
-----------------------	---------------------------------	--------------------------------

- Bachelor of Science (B.S.) in Computer Engineering. Cum Laude.
- Cumulative GPA: 3.49 out of 4.0

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.

Languages and Technologies

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

LEADERSHIP EXPERIENCE

Intern Mentor	Microsoft Corporation	Summers 2017 & 2019
----------------------	------------------------------	--------------------------------

- Provided guidance and technical advice for an intern working on a production project

Engineering Peer Advisor	University of Pittsburgh	Fall 2013
---------------------------------	---------------------------------	------------------

- Taught two sections of an official university course to assist freshmen with their college transition

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