

Technical Skills: C#, JavaScript, HTML, CSS, React.js, SQL, KQL, Java, Python, Microsoft Power Platform

Recent Work

Microsoft

Senior Software Engineer (L64)

Software Engineer II

Software Engineer

Software Engineering Intern

September 2021 – October 2023

September 2020 – September 2021

September 2018 – September 2020

June 2017 – September 2017

Business Apps & Platforms: [Application Lifecycle Management](#)

- Architected a framework to scale Power Platform (a low-code application platform used by 97% of Fortune 500 companies) to a growing developer team. Introduced a unified way to import, export, and uninstall components, with hooks for customizing behavior during a component's lifecycle (e.g. on CRUD events).
 - Sped up iteration velocity, removed a common source of bugs, and improved end-user experience.
 - Oversaw the framework adoption by 12+ partner teams building over 40 component types, resulting in 100 million imports per week with a success rate of 99.99%.
 - Improved platform reliability by implementing turnkey integration tests to ensure partner teams' components upheld lifecycle invariants.
 - Consulted with partner teams on their projects to both aid in design and identify gaps where we could improve the platform to support new use cases.
 - Second author of a patent on building extensible software at scale: [US11720333B2](#).
- Improved introspection capabilities for Power Platform to enable customers to understand their system state and how it changed over time. Developed an [audit trail](#) and new [database views](#). These eliminated a large class of daily support tickets as customers were now diagnosing issues themselves. The APIs are requested 500k+ times per month with minimal support overhead.
- Diagnosed and resolved operational issues as part of a 6-person on-call rotation. Fielded customer issues, queried KQL for telemetry, and wrote SQL mitigation scripts for database inconsistencies. Created an auto-triage bot that reduced ticket volume by 11%.
- Developed an internal app to encourage and reward beta-testers within the organization, resulting in 100+ bugs filed during the pilot launch. Managed a vendor who worked on UI development.
- Founded an early-in-career mentorship program, organized events for multiple cohorts of interns, and participated as a mentor in several company-wide programs.

[Microsoft 365 Lighthouse](#): Authorization

- Developed [role-based access control](#) for enabling read and write permissions.
- Designed a multi-stage transition plan for integrating the authorization mechanics between two separate products that were being merged ([Sales Advisor](#) into Lighthouse).

Applied Visions, Inc.

Software Engineering Intern

September 2016 - June 2017

- Developed full-stack features and fixed system bugs for [Comic-BFE](#), an interactive comic editor.

Misc.

- HackDartmouth** - Director of Technology, Alumni Judge 2015 - 2018, 2019 - 2021
- Dartmouth College** - Teaching Assistant for 5 Computer Science Courses March 2016 - June 2017
- Digital Arts, Leadership, & Innovation Lab** - Web Developer September 2015 - March 2018

Education

Dartmouth College B.A. in Computer Science

GPA 3.90/4.0

Honors: Magna Cum Laude, [Phi Beta Kappa](#), [Neukom Scholar](#), [Presidential Scholar](#), [Rufus Choate Scholar](#)