

Core Strengths

<i>Systems & Architecture</i>	Distributed systems, control planes, data planes, end-to-end system ownership
<i>Languages & APIs</i>	C++, C#, .NET, REST, gRPC, Protobuf
<i>Infrastructure & Data</i>	Azure, Service Fabric, Linux, Docker, Pub/Sub, SQL/NoSQL, message queues
<i>Delivery & Operations</i>	CI/CD (Azure DevOps), production debugging, on-call operations, incident response

Professional Profile

Software engineer with 7+ years of professional experience spanning cloud infrastructure, enterprise software, and full-stack product development. Currently a subject matter expert on Azure Core Networking's VNET team – driving platform reliability, leading cross-system investigations, and owning end-to-end delivery of critical features on a next-generation distributed infrastructure platform. Known for self-directed problem-solving in ambiguous environments, deep systems-level thinking, and the ability to ramp quickly into unfamiliar domains and technologies.

Experience

SOFTWARE ENGINEER II | MICROSOFT CORPORATION | JUNE 2021 - PRESENT

- Core engineer on Azure Accelerated Connections (NSDI '23) from inception through production GA – a greenfield platform that disaggregates stateful network functions off individual hosts into shared pools of programmable hardware. Designed and delivered key platform subsystems, and became a primary technical resource for cross-org design coordination, customer escalations, and enabling feature teams to build on the platform.
- Designed and delivered a high-throughput billing pipeline processing millions of dollars in daily revenue, requiring novel approaches to line-rate traffic classification under hardware constraints and end-to-end integration with upstream billing systems.
- Led design and implementation of a resource allocation algorithm solving a multi-constraint bin-packing problem – optimizing placement across high-availability pairs while accounting for hardware health, capacity fragmentation, and customer fault isolation.
- Architected and shipped a new resource provisioning mode (now publicly documented as Azure Virtual Network Routing Appliance) that unlocked critical AI customer workloads by adapting an established programming pipeline to support an entirely new usage pattern under tight timelines.
- Drove platform production readiness by defining end-to-end reliability KPIs, building observability dashboards and regression testing infrastructure with vendor-simulated hardware in CI, and leading systematic investigations to measurable improvement. Served as a primary escalation point for cross-product investigations across the platform suite.

SOFTWARE ENGINEER III | FACTSET RESEARCH SYSTEMS INC | JULY 2019 - JUNE 2021

- Built and shipped Office product extensions on the Productivity Suite team, delivering features that augmented customer workflows to improve efficiency and effectiveness directly within Excel, Word, and PowerPoint.
- Partnered with product managers to define requirements and deliver end-to-end solutions using C# within the Razor WPF ASP.NET framework, integrating with Office via COM and VB.NET.

FREELANCE SOFTWARE ENGINEER | BUILD MY BOD | FEBRUARY 2016 - JULY 2019

- Collaborated directly with CEO on product vision, viability, design, and implementation across the full stack to close competitive gaps and launch new revenue-generating features.
- Owned product design and implementation across backend, frontend, and infrastructure, delivering features including vendor price-comparison tools and expanded product offering customization.

Publications

DISAGGREGATING STATEFUL NETWORK FUNCTIONS | NSDI 2023 | CO-AUTHOR

- Co-authored paper presenting Sirius, a system for disaggregating stateful network functions (firewalls, NAT, load balancing) into shared pools of P4-programmable NIC appliances, achieving 5-10x improvement in connections-per-second for Azure VMs. Now in production as Azure Accelerated Connections.

Education

UNIVERSITY OF CONNECTICUT | BACHELOR OF SCIENCE IN ENGINEERING | 2019

Computer Science and Engineering – Magna Cum Laude (GPA: 3.85)