Joseph DiNiso

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Work Experience

Microsoft **August 2022 – Present**
Software Engineer II, Azure Core Compute *Redmond, WA*

- Build Azure control-plane services in C#, C++, and Rust that monitor millions of machines, provision customer compute capacity, and safely orchestrate infrastructure operations.
- Rearchitected Azure's data-plane health-monitoring service, reducing unhealthy machine detection time **by 50%** and monitoring thread count **by 83%**.
- Develop infrastructure for AI supercomputer deployments in partnership with Azure HPC teams and large-scale AI customers, reducing the time required for machine reboots, reimaging, and update deployments **by 90%**.
- Redesigned Azure control-plane services to provision bare-metal GB200 compute instances for the Fairwater AI supercomputer.
- Built a reboot-failure analysis pipeline that correlated telemetry from dozens of sources to identify root causes and responsible teams, reducing investigation time during live-site incidents.
- Resolved critical vulnerabilities in control-plane/data-plane communication by updating certificates and strengthening authorization checks across the entire Azure fleet without any service interruption.

Garmin International **May – August 2021**
Software Engineering Intern *Cary, NC*

- Developed production camera software for BMW infotainment systems as part of Garmin's Automotive OEM engineering organization.
- Benchmarked a fisheye lens dewarping algorithm on an embedded Linux-based operating system and optimized performance bottlenecks.

Progeny Systems **May – August 2020**
Machine Learning Engineering Intern *Manassas, VA*

- Improved person re-identification models using the CenterNet object-detection architecture.
- Built a data pipeline to prepare training data for a convolutional neural network trained with triplet loss.

Education

Georgia Tech **January 2024 – May 2026**
M.S. in Computer Engineering *Atlanta, GA*

- GPA: 3.90
- Concentration in Software Systems.

Virginia Tech **August 2018 – May 2022**
B.S. in Computer Engineering *Blacksburg, VA*

- GPA: 3.85
- Primary focus in Machine Learning; secondary focus in Networking & Cybersecurity.

Software Skills

Languages: C#, Python, C++, Rust
Infrastructure & Tools: Service Fabric, Kafka, ZooKeeper, OpenTelemetry, Azure

Relevant Coursework

Graduate Algorithms; Systems Design for Cloud Computing; Advanced Operating Systems

Awards & Organizations

Sigma Phi Delta Engineering Fraternity — President, Professional Chair
Dean's List with Distinction — 4 consecutive years