

# ARJUN PHERWANI

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## WORK EXPERIENCE

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### Software Engineer II, Microsoft Azure Boost

*February 2023 - Present*

- Co-own Azure Boost payload delivery and servicing infrastructure and own its C++ telemetry component, monitoring networking services across hundreds of thousands of production nodes supporting up to 200 Gbps VM networking.
- Co-led migration of a production systemd service from Bash/C++ to Rust, delivering a modular, unit-tested architecture that reduced memory-safety risk and made new-SKU onboarding safer.
- Diagnosed and fixed recurring OOM crashes in owned telemetry component through memory profiling and lifecycle/ownership fixes, eliminating production crashes that caused telemetry loss and degraded customer-facing reliability signals.
- Hardened service access by designing Polkit-scoped D-Bus authorization for owned component; also helped reduce brownout recovery to <1 second through systemd shutdown/threading fixes.
- Served as triage on-call for a 300+ engineer organization, coordinating cross-team response across 10–20 production incidents per three-day shift.
- Delivered internal technical talks on Rust development practices and mentored an intern who joined team full-time as SWE after graduating.

### Software Engineer, Microsoft Azure Media Services

*August 2022 - February 2023*

- Built .NET/C# backend services and REST APIs supporting media processing and streaming infrastructure.

### Software Engineer Intern, Microsoft

*May 2021 - August 2021*

- Built .NET/C# async status-tracking service for background provisioning workflows, reducing perceived API latency from 10+ seconds to <2 seconds.

### Research Assistant, UCF EC Lab

*Fall 2019 - Fall 2020*

- Co-authored [AAMAS 2021](#) and [FLAIRS 2021](#) papers on decentralized multi-agent swarm desynchronization using C and Python.

## PROJECTS

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### Olive — Tax-aware equity concentration planning platform

- Building a Cloudflare-native planning app for concentrated employer-stock holders using Workers, D1, Hono JSX, scheduled jobs, Cloudflare Access, and an AI-assisted analysis layer.
- Designed data model for transactions, tax lots, RSU vest schedules, price history, journal entries, formal theses, valuation notes, and rebalance scenarios.
- Implemented staged liquidation and index-transition workflows with after-tax scenario modeling, source-tagged market-data ingestion, and privacy-limited AI analysis.
- Private repo; demo portfolio and architecture walkthrough available.

### Zero Game

- Designed and shipped a multiplayer web-based card game with audio chat via Cloudflare Calls; public GitHub project.

## EDUCATION

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### University of Central Florida

*Aug 2018 - May 2022*

Bachelor of Science in Computer Science | Minor in Mathematics and Robotics

Graduated Cum Laude (GPA: 3.95)

## SKILLS

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- **Languages:** Rust, C++, C, C#, Python, Bash, TypeScript
- **Systems:** Linux systems programming, systemd, D-Bus, Polkit, RPC/gRPC
- **Debugging:** perf, WinDbg, Wireshark
- **AI-assisted development:** Claude Design, Claude Code, Codex, Code Security, GitHub Copilot