# > nigel haney

### 🔁 About

I am a software engineer focused on distributed system infrastructure and backend web development with 5+ years of experience and a track record of delivering successful projects that bring real impact. To do this, I write code (and lead teams to write code) that balances business value with idiomatic design to bring joy to users and empower future maintainers.

### Work Experience

Microsoft	Senior Software Engineer	2023 -
	Software Engineer II	2021 - 2023

• Owned and maintained critical service internal to Azure networking related to datacenter network device security automation. Led multiple projects related to this service, including:

- Development of new features that allowed internal customers to onboard automation scenarios to the service, saving internal customers thousands of hours of manual toil and reducing the error rate of previously manual processes by 100%.
- Overhaul of observability of the service to provide more meaningful alerts with more context, saving millions in revenue by preventing downtime in critical Azure services.
- Refactoring of codebase in order to promote testability and increased modularity, leading to 100% test coverage of critical paths and faster developer velocity allowing my team to rapidly land features.
- Led cross-functional team to develop and operate automation to complete first of its kind security update across Azure's entire fleet of network devices to meet audit requirements. This resulted in a passed audit, allowing many of Azure's largest customers to remain operating on our cloud and secured a large revenue stream for the company.
- Led development of a brand-new service, from zero to MVP, that addresses critical monitoring gap of our network devices in novel ways by leveraging new advancements in GenAI to provide actionable insights about the security of our network.

Technologies used: .NET/C#, Python, Azure, Windows, Linux, innumerable internal tools/libraries

## Parsons CorporationSoftware Engineer2019 - 2021

- Led design and implementation of web APIs to provide integration points into our web application for external clients.
- Led design and implementation of an integration with an external identity provider to allow for AuthN/Z into our application using pre-existing infrastructure.
- Selected to be on a small team tasked with designing and implementing a rapid prototype that determined the future of a critical product.

Technologies used: Python, Django (rest framework), Celery, Docker (compose), Redis, PostgreSQL, Linux

#### Other experience or interest in

nix, vim, Open-source software, C, Rust, HTML/CSS/JS, WASM/WASI, formal methods (P), functional programming

#### Education