

Jonah Fritz

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PROFESSIONAL EXPERIENCE

- **Microsoft** Redmond, WA
Software Engineer - MyWorkspace Jun 2022 - Present
 - Helped design and implement new infrastructure provisioning and management service using C#, .NET 7, and Azure
 - Designed and implemented workflow for automated deployment of network topologies to customer Azure subscriptions
 - Automated creation of DNS records for firewall hub networks end-to-end
 - Developed batch-based system for giving customers time-restricted access to compute and network resources behind Azure Firewalls and Application Gateways
- **Microsoft** Redmond, WA
Software Engineer Intern - High Risk Environment May 2021 - Aug 2021
 - Built from scratch network monitoring tool for devices in air gapped data centers called Panopticon – tool was promoted to production following internship
 - Used Django and Django REST Framework to create API to retrieve and modify device status and historical configuration data
 - Used React, Fluent, and Coherence to introduce frontend for network engineers to quickly and easily digest relevant device status information
 - Developed polling engine to periodically get information from networked devices using ICMP and SNMP commands
- **Amazon** Seattle, WA
Software Development Engineer Intern - Alexa AI Jan 2021 - Apr 2021
 - Proposed, designed, and implemented self-service Java CLI to facilitate customer experience for adding personalization features to Alexa
 - Updated tier 1 service vital to Alexa speech understanding workflow to use S3 for storing configuration information
- **IBM** Poughkeepsie, NY
Software Developer Intern - z/OS Compiler Performance Jun 2020 - Aug 2020
 - Automated process for configuring mainframes and running C++/Java compiler benchmarks using Python and shell scripting to tie together Jenkins, Ansible, and Slack API
- **MarginEdge** Fairfax, VA
Software Engineer Intern May 2019 - Jun 2020
 - Substantially contributed to every layer of a Spring Boot webapp using Java, JavaScript, and SQL
 - Implemented new features including integrations with external point of sale and accounting systems and improvements to electronic invoice processing

EDUCATION

- **Rochester Institute of Technology** Rochester, NY
B.S. - Software Engineering; GPA: 3.62 Aug 2017 - May 2022
Minor: Philosophy Honors: Magna Cum Laude

SKILLS AND TOOLS

- **Languages:** Java, Python, JavaScript, C#, SQL, Bicep
- **Frameworks and Libraries:** React, Spring Boot, AngularJS, Expo, Django, Guice, React Native, .NET
- **Platforms and Databases:** AWS, Azure, Heroku, IBM Cloud, PostgreSQL, Cosmos DB, MongoDB

PROJECTS

- **Words Plus** (*Expo, ReactNative*): Mobile app adaptation of Wordle. Features unlimited replays, adjustable word length, and teaches players word definitions upon loss. Published on App Store.
- **Insomniac** (*Python, JavaScript, React, MongoDB, Heroku*): Webapp funded by the Department of Veterans Affairs as an Innovation App following hackathon win. Compares a user's standardized burnout score with user's sleep based on data from wearable device.

EXTRACURRICULAR ACTIVITIES

- **Computer Science House:** A living-learning community filled with RIT students passionate about computing. Every year, each active member must submit a major computing project for approval. Members collaborate, share knowledge, and grow their skills by creating projects and maintaining house service infrastructure.
- **MIT Hacking Medicine:** Hackathon for creating solutions to improve health and wellness. Won the Department of Veterans Affairs award for concept using wearables and machine learning to improve sleep.