JONAH FRITZ

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EDUCATION

Rochester Institute of Technology   Rochester, NY
BS Major: Software Engineering Minor: Philosophy *GPA: 3.5*   Aug 2017 - May 2022

PROFESSIONAL EXPERIENCE

Microsoft   Redmond, WA
Software Engineer Intern - E360 Managed Workspaces   May 2021 - Aug 2021

- Worked in Microsoft Digital High Risk Environment to build a prototype network monitoring tool to gain visibility into networked devices within airgapped data centers.
- Used Django and Django REST Framework to create an API to see the status of devices and their interfaces as well as historical configuration information.
- Used React, Microsoft Fluent, and the Coherence Design System to implement a frontend for network engineers to quickly and easily see relevant device status information.
- Developed a polling engine to periodically get information from networked devices using SNMP and ICMP commands.

Amazon   Seattle, WA
Software Development Engineer Intern - Alexa AI   Jan 2021 - Apr 2021

- Proposed, designed, and implemented Java CLI to facilitate self-service customer experience for adding personalization features to Alexa
- Updated tier 1 service vital to Alexa speech understanding workflow to use S3 for fetching configuration information
- Used S3, DynamoDb, and AWS Lambda functions to greatly reduce developer intervention required when fulfilling customer requests for adding new personalization slot configurations to Alexa

IBM   Poughkeepsie, NY
Software Developer Intern - Z Systems Compiler Performance Team   Jun 2020 - Aug 2020

- Automated process for comparing performance of Java compilers on different configurations of z/OS mainframes
- Created automated process for configuring mainframes and running C++ 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

SKILLS AND TOOLS

Languages and Databases:	Java, Python, JavaScript, HTML, SQL, MongoDB
Frameworks, Libraries, and Tools:	Spring Boot, AngularJS, React, Django, Git, Linux, Guice
Cloud Platforms:	Heroku, AWS, Azure

PROJECTS

Insomniax *Python, Javascript, Flask, React, MongoDB, Heroku*   https://www.insomniax.app
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
An organization filled with 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.

MIT Hacking Medicine
Won the Department of Veterans Affairs award for concept using wearables and machine learning to improve sleep.