Jonah Rosenblum

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Education

University of Michigan - Ann Arbor, MI
B.S. in Computer Science (2020), M.S. in Computer Science Engineering (2021)

Experience

Google   **Virtual**
Software Engineering Intern   *May-August 2021*
- Analyzed inversion between network and application priority for high priority Google traffic.
  - Demonstrated correlation between network usage and application performance
  - Identified strategies to align priority of less latency sensitive traffic with appropriate QoS.
- Implemented feature to monitor success rate of system call across Java and Go net code.

Google   **Virtual**
Software Engineering Intern   *May-August 2020*
- Implemented graceful shutdown of processes in OpenTelemetry to ensure all traces and metrics are exported before a Google Cloud Run instance is scaled down.
- Wrote five pull requests to resolve six issues across the opentelemetry-js, opentelemetry-operations-js, and opentelemetry-python repositories.
- Created prototype of metric exemplar feature, wrote extensive documentation to hand off project.

Under Armour   **Baltimore, Maryland**
Collaboration Software Intern   *May-August 2019*
- Built custom Slack and Teams integrations using node.js and botkit to improve process for identifying and solving employee tech and infrastructure challenges. Saved company an estimated $30,000 per year and greatly reduced resolution time for incidents.
- One of three interns selected to present to CTO and department heads.

Mia Learning   **Washington, D.C.**
Software Development Intern   *May-August 2018*
- Developed in-house machine learning and data collection tools to improve the functionality of the company's core product, a chatbot, by working directly with the CTO.
- Streamlined data collection process via automation and pipelining, reducing time required from eight hours to 30 minutes and increasing chatbot's ability to interpret human language.

National Institutes of Health   **Bethesda, Maryland**
Research Intern   *June-August 2016*
- Analyzed the effects of chronic liver disease on patients with sleep disorders.
- Evaluated data sets for a clinical research paper and presented findings at medical symposium.

Technical Skills

Languages and Technologies
- Languages: C/C++, Python, Javascript/HTML/CSS, ARM Assembly.
- Technologies: React, Linux, Git, SQL, Bash Scripting, Pandas, Flask.

Relevant Courses
- Operating Systems & Advanced Operating Systems, Parallel Computer Architecture, Computer Networks, Data Structures and Algorithms, Web Systems, Software Engineering.

Personal Projects

- *CrockPi:* Raspberry Pi based controller for a slow cooker which modulates cooking time and temperature using a relay and sensors. Code available on GitHub.
- *Coevolution:* Evolutionary algorithm based simulation that showcases how an organism's brain and body can evolve in conjunction with one another. Code available on GitHub, live demo.
- *Haiku Review:* Twitter bot that creates haikus where each line is an abbreviated news article headline. Code available on GitHub, find @haikureviewlive on Twitter to see examples.