**Jacob Trock** Boston, 02125 • (203) 216-2725

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**Passionate, genial programmer and entrepreneur.**

***Work Experience***

**Broad Institute of MIT and Harvard, Cambridge MA**

***Software Engineer*** *for the* [*open source*](https://github.com/DataBiosphere/terra-ui/pulls) *scalable biomedical platform* [*Terra*](https://terra.bio/) 01/2023-Present

• Lead efforts on team and working group to convert components to typescript

• Proposed and led efforts to implement prettier/eslint on large open-source codebase

• Implemented and tested new modal to delete Azure Disks in React with Typescript as part of collaborative effort to add support for persistent disks

• Worked collaboratively to regress and repair breaking changes in the hour after they were discovered

**Phast Diagnostics, Boston MA**

***DevOps/Hardware Engineer for*** [***antibiotics-resistance AI platform***](https://phastdiagnostics.com/) 01/2022-06/2022

• Worked alongside senior engineer to develop secure patient data and encryption handling backend in Java

• Worked on client/hospital facing GUI, Worked on C# algorithm to compensate for chip curve, implemented comprehensive unit testing

• Wrote Bash scripts to manage uploading data from hard drives to cloud platform

• Worked in Python to adapt Jupyter notebooks to production Docker containers and write scripts to parse >1gb excel sheets from hospitals into DB query format

• Managed AWS edge Lambda, RDS(Postgres) and EC2 resources across many regions(US, Europe, Korea)

• Proposed abd Reduced costs by up to 60% by porting existing Lambdas to more affordable ARM instruction sets and by using cheaper SPOT instances

• Worked on prototype hardware and software for cloud-enabled microscope for AI diagnosis ecosystem

• Made visual assets for GUIs and presentations using the Adobe Suite

***Education***

• BS Computer Sciences, Graduation 2025, Khoury College, Northeastern University

• BS Business, Graduation 2025, D’Amore McKim School of Business, Northeastern University

***Personal Endeavours***

• Nebulous Systems: Cloud-portable SaaS, Built out billing systems, backend(2022)

• ServiceEngine: NoCode File processor, Invited to TechCrunch Disrupt, youngest finalist at Husky Startup challenge(2021)

• Furniture Design (metal welding and woodwork), Technology recovery and refurbishment, 3D printer repair, Linux/Nixos, Secure computing, low-level/embedded systems, camping, kayaking, biking, skateboard photography