

Eli Baum

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Arlington VA

Professional Experience

- Jun 2021 – Present **MITRE**
Electrical Engineer, *National Security Accelerator Program*
- Jun 2019 – May 2021 **U.S. Department of State, Washington DC**
Information Management Technical Specialist
- Tested communications systems for U.S. diplomatic facilities abroad
 - Developed Python and web applications for data analysis, hardware testing, and radio-frequency characterization
 - Served as government technical representative on research, development, and acquisition contracts
 - Maintained Top Secret clearance
- Jun 2018 – Aug 2018 **IBM Systems, Burlington VT**
Summer Development Engineering Intern, *Burn-In & Test*
- Wrote command-line networked Python applications for automated stress-testing of IBM POWER and Z processors
 - Designed automated diagnostics system for semiconductor test equipment
- Jun 2017 – Aug 2017 **InterSystems Corporation, Cambridge MA**
Summer Intern, *Quality Development*
- Built full-stack automated web application in Vue.js for analyzing and visualizing product test coverage
 - Mastered proprietary database language
 - Developed APIs for integration with open-source software

Education

- Sep 2015 – Jun 2019 **Yale University, New Haven CT**
B.S. *cum laude* in Electrical Engineering & Computer Science
- Senior Project:** Dynamic Binary Translation for Optimized Functional Units (advisor: Rajit Manohar)
- Activities**
- Teaching Assistant, *Systems Programming & Computer Organization*
 - Design Lab Assistant, *Yale Center for Engineering, Innovation, and Design*
 - Principal Trumpet, *Yale Concert Band & Davenport Pops Orchestra*

Skills & Interests

Languages: C, Python; Go, Javascript/HTML/CSS; Java, Ruby on Rails, Rust, Assembly

Areas of expertise: Linux; embedded systems and digital electronics; cellular networking and software-defined radios; silicon design, cybersecurity, and artificial intelligence

Activities: Code for DC Volunteer, working on a Rails/Mongo app to help expand access to medical care among vulnerable populations; volunteer technical advisor to a food-security startup in London.

Personal: Avid consumer of local news, investigative podcasts, and remixes of songs that shouldn't be remixed; devotee of public transit and modern design; amateur linguist, urban planner, chef, runner, and mad scientist.