

Eli Baum

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Washington DC

Professional Experience

- Jun 2021 – Present **MITRE, McLean VA**
Electrical Engineer, *Naval Division*
- Conducted in-depth security analyses of sensitive U.S. Government hardware systems
 - Led 5G cellular radio research effort
 - Prototyped passive radio-frequency (RF) sensing networks
 - Collaborated on the development of tactical network routing and characterization tools, and contributed work to the open-source community
 - Developed optical satellite-tracking application for a US military academy
 - Maintained Top Secret/SCI clearance
 - Received Trailblazer Award for impactful work
- Jun 2019 – May 2021 **U.S. Department of State, Washington DC**
Information Management Technical Specialist
- Researched, tested, and trained colleagues on communications systems for U.S. diplomatic facilities abroad
 - Developed 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*
- Created networked Python applications for automated stress-testing of IBM POWER and Z processors
 - Designed diagnostics system for semiconductor test equipment
- Jun 2017 – Aug 2017 **InterSystems Corporation, Cambridge MA**
Summer Intern, *Quality Development*
- Built full-stack web application 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: Python, C; Ruby on Rails, HTML/CSS/JS, Java, Go, Assembly

Areas of expertise: Cellular networks and software-defined radio; reverse engineering, side channel analysis, and security; Linux; embedded systems, digital electronics, and semiconductor systems

Activities: Code for DC volunteer, working on a Rails/Postgres app to help expand abortion access to vulnerable populations; ultimate frisbee

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.