

# Eli Baum

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Washington DC

## Professional Experience

- Jun 2021 – Present     **MITRE, McLean VA**  
Electrical Engineer, *Naval Division*
- Task lead for 5G physical- and protocol-layer research effort
  - Conducted in-depth security analyses of sensitive U.S. Government hardware systems
  - Built prototypes for passive radio-frequency (RF) sensing networks
  - Collaborated on the development of tactical network routing and characterization tools, and contributed MITRE's work back to the open-source community.
  - Developed optical satellite-tracking application for a US military academy
  - Maintained Top Secret clearance
- 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*
- Created 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 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, Java, Ruby on Rails, Web development, Assembly

**Areas of expertise:** Cellular networks and software-defined radio; embedded systems, digital electronics, and semiconductor systems; Linux; cybersecurity and reverse engineering; artificial intelligence

**Activities:** Code for DC Volunteer, working on a Rails/Mongo app to help expand access to medical care among 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.