

# Gary E. Laski

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## Education

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### Georgia Institute of Technology | Atlanta, GA

August 2019 – December 2023

Bachelor of Science in Computer Engineering, Honors, 3.44 Major, 3.28 Overall

Emphasis: Cybersecurity, Distributed Systems & Software Design

### Stanford University | High School College Program | Stanford, CA

June 2018 – August 2018

Computer Science Intensive Study, Silicon Valley Innovation Academy

## Skills

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**Coursework:** Malware Analysis, Reverse Engineering, Dynamic Programming, Networking, Databases, Optimization, Digital Design, Embedded Design, Circuit Analysis, HW/SW Design, Discrete Math

**Programming:** Golang, C/C++, Shell, Assembly (x86, Arm, MIPS), Python, JavaScript, CSS, HTML

**Software:** Git, IDA Pro, Ghidra, gdb, WireShark, Altera Quartus II, EAGLE, Nginx

**Platforms:** Linux, Windows, Docker, KVM

**Hardware:** Raspberry Pi, Arduino, ARM mbed microcontroller, FPGAs, oscilloscope, logic analyzer

**Communication:** Microsoft Office, Design proposals, Technical reports, Manuals, Meeting facilitation

**Certifications:** CompTIA Linux+, Eagle Scout

## Experience

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### Sandia National Labs | Livermore, CA

May 2023 – December 2023

R&D Intern, Cybersecurity | Center for Cyber Defenders | On-site and Remote

- Developed open-source virtual machine orchestration tool *phenix* (Golang)
  - State-of-health to monitor currently running experiments
  - Image builder to create Windows and Linux images automatically
- Performed and presented gap analysis of IT governance dealing with cutting edge cloud computing challenges

## Projects/Activities

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### Senior Design Project: Visual Mixer and Equalizer

January 2023 – December 2023

- Worked in a team of four to plan, design, and implement a four-channel analog mixer
- Engineered a Golang backend hosted on a Raspberry Pi, controlled via a web app
- Designed a custom PCB in EAGLE for fabrication
- Presented at the Fall 2023 Capstone Design Expo in front of industry and local audience

### Capture the Flag Events

May 2023 – Present

- Participated in various CTFs, such as TracerFire, 5n4ck3y, NSA Codebreaker
- Placed 4<sup>th</sup> of 246 teams in the Gold Bug cryptography challenge at DEFCON 31

### Metadata Backed Music Server

November 2022 – Present

- Wrote a Golang and PostgreSQL backend to serve a music app based on MusicBrainz metadata
- Optimized for speed using profiling and benchmarking tools

### Cyclical Electromagnetic Error Denial System Using Matrix Profile

January 2020 – November 2021

Published in *arXiv*, Yale Undergraduate Research Symposium

- Proposed that the Matrix Profile data structure is applicable to the analysis and suppression of cyclical error in electromechanical systems.
- Worked with a partner on algorithm design in Python and hardware experimentation using Raspberry Pi