

# Ethan T. Blake

+1 (480) 400-5202 | Mesa, Az | [ethanblake417@gmail.com](mailto:ethanblake417@gmail.com) | <https://github.com/EthanBlake417> | [LinkedIn.com/ethan-blake-dev](https://www.linkedin.com/in/ethan-blake-dev) | [ethanblake-computerscientist.com](https://ethanblake-computerscientist.com)

## WORK EXPERIENCE

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### Software Engineer

May 2020 — Present

Grid Evolution Technologies

Scottsdale, AZ

- R&D: Constantly write new scripts or UI for emerging problems
- Application Development: Developing a GUI for a three-phase chassis for Hubbell
- Software Maintenance: Maintain GUI software for Grid Evolution Technologies and Dynamp

### Undergraduate Learning Assistant: Data Structures

September 2021 — December 2022

Oregon State University

Corvallis, Oregon

- Held office hours twice a week for 2 hours
- Performed 25+ weekly code reviews on student assignments
- Developed a student python style guide

## PROJECTS

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### 92LE Packet Capture

[https://www.youtube.com/watch?v=5m\\_N3cq8OnE](https://www.youtube.com/watch?v=5m_N3cq8OnE)

- Technologies: Python, PySide6, pyqtgraph, numpy, scipy, scapy
- Solves: 4khz data collection (92LE protocol), visualization and manipulation

### Grid-Test-GUI

- Technologies: Tkinter, matplotlib, pandas, numpy, PyVISA, scapy, pyserial, Cython
- Solves: modular synchronous data collection with up to 15 instruments with live visualization and data manipulation

### Source-Screen-Calculator

- Technologies: Pandas, numpy, cuda, PySide6
- Solves:  $O(n^4)$  calculations problem with trillions of computations by using CPU parallelization and GPU computation for 150x speedup

### Guess It

- Technologies: Flutter, Firebase
- Group word guessing/description game with customizable categories and words

## EDUCATION

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### Georgia Institute of Technology

Atlanta, Georgia

Master of Science, Computer Science

Jan 2024 — Present

- GPA: 3.25/4.0

### Oregon State University

Corvallis, Oregon

Bachelor of Science, Computer Science

Jan 2021 — December 2022

- GPA: 3.91/4.0

### Arizona State University

Tempe, Arizona

Bachelor of Music, Vocal Performance

Aug 2014 — May 2018

- GPA: 3.84/4.0

## AWARDS

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- PSAT National Merit Scholar

## SKILLS

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- **Languages:** Python, C, C++, HTML, CSS, MASM 32-bit Assembly, JavaScript, SystemVerilog, Typst, Flutter
- **Technologies:** PyVISA, Matplotlib, Tkinter, Pandas, Multiprocessing, Numpy, Ctypes, Cython, Numba, Eel, Cuda, OpenCL, Open MP Parallel Programming, Open MPI Parallel Computing, Linux, APIs, Flask, Docker, LLMs, Git, Github, Firebase