

# Ethan T. Blake

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## EDUCATION

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### Georgia Institute of Technology

*Master of Science, Computer Science*

- GPA: 3.25, Dean's List

Atlanta, Georgia

*Jan 2024 — Present*

### Oregon State University

*Bachelor of Science, Computer Science*

- GPA: 3.91, Dean's List

Corvallis, Oregon

*Jan 2021 — December 2022*

### Arizona State University

*Bachelor of Music, Vocal Performance*

- GPA: 3.84, Dean's List

Tempe, Arizona

*Aug 2014 — May 2018*

## WORK EXPERIENCE

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### Software Engineer

Grid Evolution Technologies

- 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

May 2020 — Present

*Scottsdale, AZ*

### Undergraduate Learning Assistant: Data Structures

Oregon State University

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

September 2021 — December 2022

*Corvallis, Oregon*

## PROJECTS

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### Grid-Test-GUI

- Developed a Python GUI for controlling various instruments, including a dc power supply, extinction ratio meter, oscilloscope, multimeters, and ovens
- Implemented synchronous data collection using multiprocessing and threading
- Enabled live data manipulation, collection, and visualization

### Source-Screen-Calculator

- Development: Utilized Pandas, Numpy, Numba, and Cuda to calculate micrometer-scale light travel
- Complexity: Addressed an  $O(n^4)$  problem due to short distances
- Scale: Handled calculations for 1000x1000 source and screen arrays, equating to trillions of computations
- Optimization: Used Cuda for GPU calculations and Numba for CPU parallelization, dividing the tasks
- Result: Achieved a 150x speedup, streamlining complex calculations

### CS344 Small-SH

- Created a C program in Linux that mimics some Bash Shell functionality, (e.g., ls, <, >, pwd, cd) for an OSU school project

[GitHub](#)

## 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
- **Technologies:** PyVISA, Matplotlib, Tkinter, Pandas, Multiprocessing, Numpy, Ctypes, Cython, Numba, Eel, Cuda, OpenCL, Open MP Parallel Programming, Open MPI Parallel Computing, Linux, APIs, Flask, Xilinx Vivado, Docker