Gregory Galonsky

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EDUCATION

University of Pittsburgh **Pittsburgh, PA | May 2029**

B.S. in Computer Science, Minor in Linguistics | GPA: 3.85/4.00

- **Coursework:** Data Structures & Algorithms, Systems Software, Computer Organization & Assembly Language, Discrete Mathematics, Data Science Foundations, Honors Linear Algebra
- **Honors:** Frederick Honors College, Dean's List (Fall 2025, Spring 2026)

PROJECTS

Letterblind | *JavaScript, HTML, CSS, WebExtensions API*

- Built and published a browser extension to Firefox Browser Add-ons that hides film ratings, reviews, and friend activity on Letterboxd until after logging or rating
- Detected watched and rated status without API calls by querying CSS classes and data attributes from the DOM
- Let users choose dynamic page layout by mapping saved preferences to the page's logged and rated state

IoT Interactive Lamps | *C++, ESP32, Adafruit IO, CAD, 3D Printing*

- Fabricated and programmed two ESP32-based lamps from scratch by designing and fabricating the enclosures, soldering each microcontroller to a 24-LED ring and a copper-tape touch pad, and writing the C++ firmware
- Linked the lamps across separate Wi-Fi networks so a touch on one sends a color to the other via a shared feed on a cloud-based MQTT broker
- Classified tap, hold, and double-tap gestures from noisy capacitive readings by averaging 5 samples against a threshold, timing holds past 600 ms, and tracking double-taps in a 400 ms window

SKILLS

Languages: Java, C++, C, Python, JavaScript, HTML, CSS
Tools & Frameworks: pandas, matplotlib, Git, GitHub, Jupyter
Hardware & Fabrication: CAD, Hardware Prototyping, Adafruit IO

WORK EXPERIENCE

Lower Makefield Township Parks & Recreation **Yardley, PA | May 2026 - August 2026**

Gate Attendant

- Processed entry and payment for up to 400 patrons on peak days by executing efficient point-of-sale transactions and managing access logistics
- Resolved conflicts without escalation by enforcing operational guidelines through clear, tactful communication

Kumon **Yardley, PA | May 2024 - August 2025**

Center Assistant

- Tutored students ages 3-15 in foundational concepts in English and mathematics by working one-on-one and guiding them until they could complete the material independently
- Ensured accurate student progression tracking across 50+ daily assignments by cross-referencing varied content-level answer keys and rapidly grading coursework
- Aligned parental expectations with student progression by synthesizing performance data and behavior observations into actionable feedback