

Justin Verlin

Annandale, NJ | JustinVerlin200@gmail.com | 908-797-5805 | [LinkedIn](#) | [Github](#)

EDUCATION

Bucknell University, College of Engineering, Lewisburg, PA
Double Major: B.S. in Computer Science & Engineering and Data Science | Graduating May 2027
- Technical GPA: 3.66.

WORK EXPERIENCE

Incoming Product Development Intern | SpinSci Technologies | May 2026 - August 2026 | Dallas, TX

Enterprise IT Intern | NYC Health + Hospitals | June 2025 - August 2025 | New York City, NY

- Improved security posture of production healthcare IT systems by replacing hardcoded credentials with OpenSSL-based key management, reducing credential leakage risk in regulated environments.
- Developed automation scripts to query SQL databases used by operational teams, reducing manual data retrieval and improving the reliability of recurring workflows

Backend Developer | Agile Project Management Platform | Jan 2024 - Present | Lewisburg, PA

- Designed and maintained production SQL schemas serving 100+ users; refactored backend logic to push computation into SQL, reducing query latency and backend load.
- Owned development of Node.js/Express REST APIs on a 9-person Agile team, supporting data-driven workflows and system integration

Teaching Assistant | Computer Science Department | Sep 2024-May 2025 | Lewisburg, PA

- TA for CS 204 and 205; assisted 30+ students with data structures and software engineering concepts.

PROJECTS

Keystroke Synthesizer | Research Assistant | Sep 2025 - Present

- Architected a custom DeBERTa-v3 transformer utilizing heteroscedastic regression to jointly predict mean latencies and aleatoric uncertainty in human typing patterns.
- Implemented few-shot personalization by unfreezing character embeddings and training on niche datasets to accurately synthesize individual-specific keystroke dynamics.

ReGen | Developer | March 2026 | Annandale, NJ

- Command line-based AI tool that takes in sources of nearly any format (url, pdf, txt, csv, ect), and sends into an LLM pipeline that eventually produces a stylized report in Quarto, including python coding chunks for visualizations.
- An editing agent that will edit the final report based on the user's requests when finished

AI Driven Automated Video Producer & Uploader | Developer | June 2025 - July 2025

- Designed an end-to-end automation pipeline integrating LLM APIs, text-to-speech, media generation, and scheduled deployment
- Built fault-tolerant automation producing and publishing 25+ short videos per day across multiple channels.

JustinVerlin.com & JustinAI | Developer | April 2026 - Present

- My personal website includes JustinAI, a rag model that pulls from a small vectorized database containing key information about me, so users can ask targeted questions
- Includes a live demo of the keystroke synthesizer, which will either synthesize and type out text for you or compare your typing to the model's predictions.

LEADERSHIP & INVOLVEMENT

Eagle Scout | Boy Scouts of America | 2013 - 2023 | Lebanon, NJ

TECHNICAL SKILLS

- **Languages:** Python, Java, C#, SQL, R, C, HTML/CSS, Bash
- **Tools & Platforms:** Git, Linux, Visual Studio, IntelliJ, Emacs, Raspberry Pi, Google Cloud Platform
- **Frameworks & Libraries:** Matplotlib, ggplot2, flexdashboard, NumPy, FFmpeg, Transformers (Hugging Face), TensorFlow, PyTorch
- **Technologies:** REST APIs, OpenSSL, Agile/Scrum, Flask, Docker, Google Cloud Run, CI/CD, FastAPI