

Luke Whritenour

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EDUCATION

Computer Science B.S. and Data Science B.S., minor in English

Class of 2029

Worcester Polytechnic Institute

Worcester, MA

- **Relevant coursework:** Algorithms, Object-Oriented Design, Systems Programming, Intro to Data Science and AI, Foundations of CS Theory, Statistical Modeling and Analysis, Software Engineering (Spring 2027), and Operating Systems (Spring 2027)s
- **Leadership and Activities:** Secretary, Club Swim Team; WWPI Radio Club; Lifeguard, Rec Center

PROFESSIONAL EXPERIENCE

Associate Software Engineer

Sep 2026 – Present

Visualize Policy

Boston, MA

- Built Visualize Policy's new main website in Svelte Kit, Svelte and Tailwind CSS as a prerendered static site
- Led our rebrand, creating new logos, brand guidelines and a shared design system designed for incremental adoption
- Developed a dashboard showing how health policy affects the affordability and reach of health insurance in the US

Summer IT Intern

Jun 2026 – Aug 2026

Franklin Lakes Public School District

Franklin Lakes, NJ

- Diagnosed, repaired, and updated software on 1,000+ Apple devices district-wide ahead of the school year
- Authored end-user documentation that non-technical staff can use to resolve common classroom technical issues
- Provided technical support to teachers and administrators, helping to diagnose issues and set up new devices
- Deployed and maintained AV systems (projectors, speakers, document cameras, docking station) in 100+ classrooms

PROJECTS

[Spacebin](#) — open-source text-sharing platform | Go, SQL, HTML/CSS, Docker

Aug 2020 – Present

- Built and maintained a production Pastebin service with authentication, collections, encryption and a REST API
- Shipped low-latency sharing of over 1.2m documents for 450+ users
- Scaled a public online instance that receives ~60k unique monthly visitors and 43m+ total requests
- Architected the system for high availability and horizontal scalability; deployed it via Docker on production servers

[GoatRide](#) — campus ridesharing platform | Next.js (React.js), TypeScript, Prisma

Sep 2025 – Present

- Building a ridesharing platform for WPI students, currently targeting a late Fall 2026 launch
- Engineered secure authentication, session management, private messaging and role-based access control, backed by a relational Prisma/PostgreSQL schema spanning users, rides, DMs, and ride requests
- Integrated the Google Maps API for location searching, geocoding, and route display
- Developed a responsive UI with Next.js and Tailwind CSS, emphasizing accessibility and usability

[CV Peak Analyzer](#) — cyclic voltammetry analysis toolkit | Python, pandas, SciPy, Matplotlib

Apr 2026

- Built a signal processing pipeline that parses proprietary potentiostat file formats from real lab equipment, splits voltammetry sweeps, and detects oxidation and reduction peaks with prominence-based filtering
- Automated batch analysis of entire experiment directories into standardized CSVs and annotated plots, replacing manual peak identification, and published the tool as open source

TECHNICAL SKILLS

Languages | Go, TypeScript, JavaScript, Python, Java, C/C++, SQL, R, HTML, CSS

Frameworks | React.js/Next.js, Svelte, Tailwind CSS, Flask, Prisma, Django, Node.js

Developer Tools and Systems | Git, Docker, Windows, Linux, GitHub, CI/CD, Vercel, VS Code, Claude, IntelliJ

Software | Figma, Adobe Creative Cloud, Affinity, Canva, Microsoft Office, AutoCAD, MATLAB