Robert Prevost

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EDUCATION

University of Illinois at Urbana Champaign — Champaign, IL
Bachelor of Science in Computer Science — *Aug. 2025 – May 2027*
- **Best** CS program in IL, top **5** in **US**.

Harper College — Palatine, IL
Associates in Engineering Science — *Expected May 2025*
- GPA: 3.91

EXPERIENCE

Lake Cable LLC — Bensenville, IL
Software Engineer — *August 2023 – Present*
- Worked closely with **engineers** and schedulers to design **web-based solutions** for improved efficiency in the quality, IT, material and scheduling departments.
- Full stack environment (**PHP, SQL Server, JS, CSS, HTML, mySQL, Python**)
- DFS **tree traversal** algorithms, **advanced** SQL functions and queries (CTE's, Recursion, Merge, Sys-Versioning)

Lake Cable LLC — Bensenville, IL
Front-end SWE Intern — *July 2023 – August 2023*
- Shadowed a senior SWE working with visualizing large datasets. Pioneered first **mobile** website for LC
- Front-end environment (**JS, CSS, HTML, Python**)
- Offered long-term position due to **high-quality performance** and **communication** ability

PROJECTS

Nuclear Particle Physics System — Game Development/Education
Solo Project Lead — *2025*
- Recreated a particle **physics engine** using two of the four fundamental forces.
- Utilized **weak meta tables** and displacement variables to improve efficiency of particle creation by $\sim$**100%**
- Link to showcase: Particle System Showcase

Manufacturing Visualization System — Full-Stack Application
Lead Developer — *2023 – Present*
- Created real-time **production tracking** interfaces (**10,000+ lines**) for job status monitoring and shift management
- Developed **operator interface** for improved user on-boarding, affecting more than **600 employees and 50+ machines nation-wide**

Database Migration Project — SQL Development
Database Engineer — *2024*
- Led complex SQL **server migration** utilizing CTE's, merge statements, and professional-level SQL functions
- Co-spearheaded an initiative to migrate **150+ tables** to a **new database architecture**, implementing rigorous **testing protocols** that allowed for a seamless conversion from the **mySQL to SQL server** branch.

AWARDS

Academic Achievements
Harper College — *Palatine, IL*
- Recipient of the Pathways Engineering Scholar Scholarship (**1 in 5 Students**) (Full-term coverage)

TECHNICAL SKILLS

Languages: Java, JavaScript, Lua, Python, CSS, HTML, PHP, C++, SQL Server, MySQL, PostgreSQL, Luau, Typescript, React, LateX
Development: Front-end and back-end development, Manufacturing systems, IT solutions
Tools & Technologies: Excel, Command-line, Data analysis, Docker, Heroku CLI, Postman
Concepts: Object-Oriented Programming, Database Design, Full-stack Development, Tree Traversal Algorithms, TCP/IP, Networking, Operating Systems, I/O, REST API, Web Sockets, cURL
Courses: Data Structures & Algorithms, Linear Algebra, Discrete Math