

Robert Prevost

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EDUCATION

University of Illinois Urbana Champaign (UIUC)

Champaign, IL

Bachelor of Science in Computer Science; GPA: 3.9/4.0

May 2027

- **Relevant Coursework:** Systems Programming, Data Structures, Computer Architecture, Statistics and Probability

EXPERIENCE

Atlassian

Incoming May 2026 – August 2026

Software Engineer Intern

Seattle, WA

- Incoming Cloud Infrastructure Team for Summer 2026

John Deere

October 2025 – Present

Software Engineer Intern

Champaign, IL

- Engineered supplier rating frontend (React, TS) on AWS S3, used by 1k+ employees to rate thousands of suppliers.
- Optimized legacy app by refactoring 10+ layer prop-drilling with Redux Toolkit & React Hook Form.
- Secured the platform using Okta for authentication and JWT tokens for role-based access control.

Parasol Lab, University of Illinois Urbana-Champaign

September 2025 – Present

Software Developer (STAPL Project)

Urbana, IL

- Developed and integrated new parallel algorithms (pAlgorithms) into the STAPL C++ HPC framework.
- Engineered high-performance CUDA C++ implementations for core parallel primitives (sort, search, transform).

Lake Cable

July 2023 – August 2025

Software Engineer Intern

Bensenville, IL

- Achieved **\$200K+ annual savings** by automating processes for **600+ employees** across **5+ plants**.
- Eliminated paper-based workflows by building a secure FormBuilder platform for Safety, Manufacturing and HR teams.
- Designed a native PHP 8 WebSocket server library on Linux to provide real-time data updates for company web apps.
- Integrated Asana's REST API to build a custom CRUD tool for managing and visualizing **16,961+** project tasks.
- Built operator management platform frontend centralizing work order management across machines nationwide
- Eliminated **20+ weekly hours** of manual order tracking by creating visualization dashboards for production scheduling

Database Engineer Intern

- Executed a zero-downtime MySQL-to-SQL Server migration for **150+ tables** in critical manufacturing operations
- Designed a temporal table solution and redesigned database, reducing annual cloud infrastructure costs by **\$10,000+**
- Automated cable voltage test configurations with Python/PyODBC, eliminating manual setup for **100k+ parts**

PROJECTS

algozero.xyz | Next.js, Node.js, TypeScript, PostgreSQL, AWS

April 2025 – August 2025

- Created unified platform combining LeetCode practice, study modes, and discussions for 100+ technical questions
- Automated question curation with QuizAPI and OpenAI, reducing manual content creation by 90% across 50+ topics
- Deployed full-stack architecture with JWT/OAuth authentication on Vercel, Railway, and AWS RDS PostgreSQL

findmyex.earth – Nasa Space Apps Chicago Finalist | React, Flask, Python, Azure

October 2025

- Developed an ensemble of Gradient Boosted Decision Tree models to classify exoplanets from TESS/Kepler data.
- Built a full-stack application with a React frontend and Flask backend, deployed on Microsoft Azure.

Nuclear Physics System | Luau, Physics

December 2023 – January 2024

- Built real-time 3D atomic simulation using Coulomb's law and Yukawa potential for subatomic particle modeling
- Implemented collision detection and velocity damping system achieving stable 60 FPS in 3D particle interactions

TECHNICAL SKILLS

Languages: C++, Python, Java, PHP, SQL, JavaScript, Lua

Tools: Git, Docker, Postman, AWS, Databricks, Okta, Datadog, Azure, Teams, Asana, Jira, Slack

Technologies: React, HTML/CSS, MongoDB, Redis, REST APIs, GraphQL, Jest, GitHub Actions, Flask, Redux, Kubernetes, Jenkins, Express.js, Tailwind CSS, Nginx, Linux/Unix