

DEMITRI L. CLARK

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EDUCATION

Rochester Institute of Technology (Rochester, NY)

Bachelor of Science, Software Engineering

August 2024 - Present

Anticipated May 2029

- Robotics and Automation Minor
- Recipient of Founders Scholarship for exceptional academic achievement

TECHNICAL SKILLS

Languages	Python Java JavaScript TypeScript C# SQL PHP Lua HTML CSS
Frameworks	React React Native Expo Flask Flask-RESTful Angular
Machine Learning	PyTorch Qwen3 QLoRA
Tools	Git GitHub REST APIs

PROFESSIONAL EXPERIENCE

Software Engineer Intern

June 2026 - Present

Lancaster Farm Fresh Cooperative

- Developed and published a cross-platform **React Native** mobile app to the App Store and Google Play, streamlining wholesale ordering for regional business partners.
- Engineered a dynamic search and live inventory module in TypeScript, enabling sub-second query performance across a database of 5,000+ active product SKUs.
- Implemented order history and tracking functionality, enabling buyers to review and reorder purchases across a rolling 14-day transaction window.
- Constructed custom **PHP REST** endpoints and authentication pipelines utilizing password hashing, session tokens, and persistent storage to securely handle transactions and user states.

PROJECTS

Computer Hardware Diagnostic AI

August 2026 - Present

- Fine-tuned Qwen3 14B using PyTorch and QLoRA to analyze and diagnose computer hardware issues.
- Built a structured diagnostic engine that extracts hardware specifications, symptoms, motherboard debug indicators, firmware changes, and diagnostic tests from natural-language input.
- Developing a React frontend providing an interactive diagnostic interface to visualize system hardware, symptoms, test results, and diagnostic conclusions.

Swing - Multiplayer Roblox Game

January 2025 - Present

- Developed an entity pathfinding system capable of traversing complex environments in Roblox Studio.
- Implemented persistent player data storage for inventory and quest progression using Roblox DataStore.
- Implemented deterministic randomization to synchronize gameplay events across networked servers and maintain consistent game state.

ADDITIONAL

German

May 2023 - Present

- German conversational proficiency, now pursuing as an immersion at Rochester Institute of Technology.
- Recipient of the 2024 National Goldkürkunde Award.