

EDUCATION

B.S. Computer Science | [Rochester Institute of Technology](#) 📅 2026

📍 GPA: 4.0; Current Coursework: MIPS + Computer Organization, Computer Science Theory, Introduction to Artificial Intelligence

EXPERIENCE

Undergraduate Researcher | [University of Rochester](#) 📅 June 2022 – Present

- Analyzed the performance of auto-tuning linear algebra (BLAS) libraries.
- Formulated novel algorithm to find OpenCL kernels that are both portable and high performance.
- Achieved up to 7x speedups over a state-of-the-art BLAS library with potential to impact scientific computing projects such as those that discover new proteins to fight disease.
- Authored *International Conference on Supercomputing* paper submission, pending review.

Python C++ CLBlast OpenCL Algorithmic Design Statistical Testing

Co-founder and Developer | [Indirect App](#) 📅 June 2020 – August 2021

- Industry-first mobile app to train dentists' hand-eye coordination. Developed from concept to commercialization.
- Collaborated with practicing dentist to define requirements.
- Deployed app to Android & iOS stores to reach addressable audience of 18,000+ dental/dental hygienist students.

iOS Xcode C# Unity Android

Software Consultant | [Sustainable Intelligence, LLC](#) 📅 June 2018 – July 2018

- Gathered software requirements and needs of Montessori students by meeting with a small group of target users.
- Designed on-the-spot custom webpage solutions to spark ideas and foster discussion.

HTML/CSS JS

PROJECTS

Stock Analysis Tools for Low-Vision Users

Developed a custom website and voice assistant skill to help low-vision users research stocks.

- Collaborated with user to define and deliver features such as authentication and predictive neural network models.
- Conceptualized a novel method of summarizing a stock curve in text format.
- Delivered 150+ stock conversations over the course of a year; product used by primary customer for over 3 years.

Linux PHP HTML/CSS R Dialogflow Node.JS

AWARDS

- Cameron Kent Buchanan Humanitarian Award: *For compassionate altruism.*
- Rensselaer Medal: *For academic achievement in mathematics and science.*
- Audio Combat Champion: *For a track that won the RIT EDM Club's Audio Combat Remix Challenge.*
- NYS Seal of Biliteracy: *For attaining a high level of proficiency in both Spanish and English.*

EXTRACURRICULARS

- Member | Computer Science House | Project Highlight: CampusFood, a website to display real-time congestion of dining halls so that CSH members can avoid long waits.
- Member | EDM Club | Avid Logic Pro user and producer of electronic dance music.
- Student Karate Instructor | Eastside Martial Arts | Managed classroom activities and lead groups of 5 to 25 high-energy students. Candidate for black belt.