

## PROJECTS

### Bits n' Bytes: AI and Sensor Driven Smart Store — Project Management, Python, Kivy, YOLOv5, MQTT

rit.edu/imagine/exhibits/bits-n-bytes-ai-and-sensor-driven-smart-store | AUG 2023 - Current

- Managed a multidisciplinary team of 12 students to design and produce a prototype smart store for exhibition at ImagineRIT, a university-wide science fair
- Built a smart store using computer vision to identify classes of products and weight sensors to further ascertain which product has been taken

### Tunnelvision - An Interactive Catalog of RIT's Murals — Python, PIL, PostgreSQL, Flask

tunnelvision.csh.rit.edu | OCT 2023 - Current

- Built SQL schema to store murals, photo references, and other attributes
- Added search functionality using PostgreSQL builtin functions
- Worked with RIT departments to collect records on the murals in the RIT residence hall tunnels

## EDUCATION

### Rochester Institute of Technology — Bachelors — CS Major, Student Life Award Recipient

AUGUST 2019 - EXPECTED GRAD DEC 2024

## EXPERIENCE

### Bryx Inc — Firmware Engineer, R&D Engineer Co-op

MAY 2022 - JUN 2023

- Implemented REST API for custom embedded device using C++
- Researched possible new products and integrations, built prototypes
- Developed webapp for dynamically controlling, updating, and debugging embedded platform

### C-Speed LLC — Computer Science Co-op

AUG 2021 - DEC 2021

- Performed testing and verification working through Microsoft Azure TFS
- Maintained and added features to a Bing Maps GIS app and employed resource efficient algorithms to manage large amounts of data

## ACTIVITIES

### Computer Science House at RIT — Member, Research and Development Director

csh.rit.edu | JAN 2022 - MAY 2023 (R&D Director) | AUG 2019 - Current (Member)

- Worked with RIT and alumni to secure a donation of thirteen 3D printers for use in our project room
- Found compromises with different RIT departments to allow some types of hot work in our work rooms
- Led multiple successful collaborative efforts including our ImagineRIT '22, ImagineRIT '23 and Devcade projects

### Engineers for a Sustainable World at RIT — Member

campusgroups.rit.edu/esw | JAN 2023 - Current

- Contributed to multiple upcoming projects including a aquaponic vegetable farm and a 3D printing recycling program

## SKILLS

Java	C#	C++	Python	C	PostgreSQL
Linux	Problem Solving		Communication		Soldering
AGILE	HTML	JS	MIPS	Pandas	PyTerrier
					Git

