

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