

## EXPERIENCE

### SPARK Executive Team – *Logistics Executive*

*JUN 2022 – PRESENT*

- Organizing hackathons and STEM events for youth across Canada
- Coordinating with STEM field professionals to offer valuable workshops to students
- Inspiring youth to pursue STEM fields and solve important issues in their community

### Catalytic Tutors – *Coding Tutor*

*DEC 2021 – PRESENT*

- Inspiring youth ages 9-18 to pursue STEM fields through the teaching of Python programming and various computer science concepts
- Managing lessons and organizing classes for 25+ students to ensure quality and effectiveness of learning

### KUMON – Scarborough – West Rouge – *Centre Assistant Volunteer*

*JUL 2022 – SEP 2022*

- Aided students in their understanding of mathematical concepts and literary analysis
  - Graded work and offered feedback to students for growth and learning
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## PROJECTS

### Purple Hydrogen

*DEC 2022 - PRESENT*

- Tackling the environmental impacts of hydrogen production through fossil fuel combustion
- Conducting microbiological research into the photosynthetic process of anaerobic purple sulfur bacteria for hydrogen production to reduce carbon emissions by approximately 40%
- Working with a team to model a bioreactor to simulate a suitable environment for bacteria to produce hydrogen, estimating materials required through stoichiometric calculations

### AA Streetball

*MAR 2022 – JUN 2022*

- Utilized Pygame and Graphical User Interface (GUI) Design concepts to create a 2D basketball game
  - Designed graphics related to the title screens, selections screens, and connected code seamlessly with the use of object-oriented programming concepts in Python
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## EDUCATION

### Pickering High School – OSSD

*SEP 2021 – JUN 2024*

- Current Average: 97%
- Enrolled in the Gifted Program

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## SKILLS AND TECHNOLOGIES

- High level of intuitiveness in STEM fields
- Exceptional communication skills
- Quick-learning and adaptability
- Confident programming ability in a variety of languages (Python, C++, Java, HTML/CSS/JS)
- Strong familiarity with Artificial Intelligence and Machine Learning algorithms and implementation
- Languages: English, Gujarati, Hindi

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## AWARDS AND CERTIFICATIONS

- 2022 Climate Change-Makers Hackathon Finalist and Spirit Award Winner
  - Math Kangaroo Contest Top 2% in Canada
  - LOSSA Durham Region Finals Silver Medalist
  - DeepLearning.AI Developer Professional TensorFlow Certification
  - Royal Conservatory of Music Level 5 Piano Certification
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