Rithika Silva

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PROFESSIONAL EXPERIENCE

Arctic Wolf, *Developer-Co-op* 🔗
09/2022 - 12/2022 | Waterloo, Canada
- **Lead Developer** in designing and developing software that extracts learning information from the company LMS using a REST API to format and use in the company Internal Reporting System (IRS).
- **Collaborated with other developers** (UX/UI) to implement a proof of concept.
- **Engaged with management stakeholders** to determine desired use cases and functionality.
- Project delivered to stakeholders along with **complete documentation** to facilitate integration into their environment.
- Optimized data collection code to **improve performance by 400%**.

PROJECTS

FRC Robot "Canuck" (Java):
- FRC 1305's robot for the (cancelled) 2020 season.
- Used PID loops to autonomously track and shoot dodgeballs at 15+ m/s with a variance of 1".
- Received Quality Award on follow up 2021 season for hardware robustness and defensive programming.

Jean the Algorithmic Art Bot 🔗 **(Python):**
- Twitter bot that posts algorithmically altered images acquired using the Unsplash API to twitter using Twitter API.
- Algorithms include pixel sorts, glitching, swirling, etc...

README Profile LoL Stats 🔗 **(Python):**
- GitHub Action that populates a users README Profile with their League of Legends statistics using the Riot API.
- Widget is customizable with different skins and choice of information to display.
- Project is ongoing and in private alpha.
- Upcoming features are: GIFs panels for data, colour customization of widget, and a minimal widget layout option.

SKILLS SUMMARY

Languages: Python, C++, C, Java, HTML/CSS
Libraries: NumPy, SciPy, Pandas
Technologies/Tools: Git, GitHub, VS Code, Vim
Operating Systems: Windows, Linux (Kali)
Other Tools: Microsoft Office Suite
Soft Skills:
- Design thinking exercised through leadership of community outreach events and management of FRC 1305.
- Extensive teamwork experience through 10+ community extracurricular groups.
- Passion for the growth mindset developed through hobbies and side projects.

LEADERSHIP

FIRST Team 1305 Student Member
12/2016 - 08/2021
- Student member on the Canadian team with the longest World Championship attendance streak (19+ year active streak). Led the team as Co-Captain, Business Manager, Robot Operator, Programming Lead, and Chairman's presenter. Was selected in 2019 as a Dean's List Semi-Finalist.
- Led several outreach events with attendances of 100+ people. Managed 20+ people.
- Currently remote mentor for the team.

EDUCATION

Candidate for Honours Bachelor of Computer Science, *University of Waterloo*
09/2021 - 04/2026 | Waterloo, Canada
- **Relevant UW Coursework:** Object-Oriented Programming, Functional Programming, Imperative Programming, Data Structures & Algorithms, Data Abstraction.
- **Current GPA:** 3.91

High School Diploma, *Chippewa Secondary School*
09/2017 - 06/2021 | North Bay, Canada
- Graduated as Co-Valedictorian, Schulich and Loran nominee for school. Completed International Baccalaureate Chemistry SL, Math SL, and Music SL with a graduation average of 98%.
- Completed Shad in 2019 at York University. Designed the apparel for the campus and became Co-Valedictorian.