Joonseo Lee

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TECHNICAL SKILLS

Programming: Python, Arduino C, C#, Java, Kotlin, MySQL
Web Development: HTML, CSS, JavaScript, jQuery, ReactJS, NodeJS, Bootstrap, RESTful Service, Inkscape, GIMP, WordPress, NameCheap
Developer Tools: Git, Jira, VS Code, PyCharm/IntelliJ, Eclipse
Operating Systems: Windows7/10/11, Linux (Ubuntu), Android 9.0+
CAD Softwares: Autodesk Inventor 2023, Siemens NX
Miscellaneous: Microsoft Office, Computer Hardware, DigitalOcean, CockroachDB, Voiceflow, XAMPP

EXPERIENCE/EXTRA CURRICULAR ACTIVITY

Communications Admin   May 2021 – May 2022
Flowboat Entrepreneurship Club   *Waterloo, ON*

- Handled all incoming and outgoing communications at the club via email
- Helped members with administrative problems and lecture content through emails and Discord

Business Operations Manager & Software Developer   Oct. 2020 – Present
Re-Fill   *Waterloo, ON*

- Updated the team's visual presence using Inkscape and GIMP
- Helped restructure the team's website using HTML, CSS, JavaScript, and Bootstrap
- Edited the winning pitch of the Flowboat Pitch Competition 2021 with Adobe Premiere Pro and Adobe After Effects

Mechanical Team Member   Oct. 2022 – Present
McMaster EcoCAR   *Hamilton, ON*

- Maintained the EcoCAR 4 project car for use in research projects at the university
- Helped develop ideas for feature implementation for the new EcoCAR 5 projecit
- Solidified skills in NX and vehicular hardware

PROJECTS

DisGraph(Hack the North 2020++)|*Python, RESTful Service, Dropbase, Git*   Jan. 2021

- Created a Discord Bot to quickly and easily visualize users' data using MatPlotLib and discord.py
- Pushed data through a Dropbase pipeline to clean data before creating graph
- Optimized algorithms to efficiently generate different types of graphs given a set of data

Portfolio Website(joonsauce.me)|*HTML, CSS, JavaScript, Git, NameCheap*   Mar. 2021 – Present

- Designed a website as a showcase of select projects
- Wrote a custom CSS stylesheet and JavaScript script to make the website look nicer
- Uploaded raw code to GitHub Pages and linked website to a custom domain via the NameCheap DNS service
- Used the NameCheap DNS service to associate a SSL certificate with the website

chAD(EngHack 2021)|*Python, RESTful Service, Git*   Jun. 2021

- Developed a Discord Bot to periodically send ads to a Discord server using discord.py
- Connected to an AirTable database through the RESTful Service using the requests library
- Created a money tracking system to reward server owners for having chAD in their servers

Memoraudio(Hack the North 2021)|*Python, RESTful Service, CockroachDB, Voiceflow, Git* Sep. 2021
- Created a memory-based, voice-activated game using Google Assistant
- Engineered an API using Flask that generates random information that players can memorize
- Deployed information onto a CockroachCloud cluster (CockroachDB)
- Used Voiceflow to manage complex voice-activated commands

E-Go-Kart|*Arduino C, FreeCAD, Git*   Jun. 2022 – Aug. 2022
- Designed a go-kart that uses a brushless motor converted from a car alternator
- Developed the hardware and software for the electronics controls unit (ECU)
- Contributed to the CAD modelling of the chassis and sensor-holding parts

AutoCVFan(DeltaHacks 9)|*Arduino C, Python, Kotlin, Android, RESTful Service, Git*   Jan. 2023
- Created a system that allows the automation of the car vent controls
- Developed the Android Camera app to connect to an OpenCV script
- Wrote a REST API to receive and send image data between device and processing server

EDUCATION

Cameron Heights Collegiate Institute   Kitchener, ON
IB Diploma and OSSD Diploma Student with 94% graduating average   *Sep. 2018 – Jun. 2022*

McMaster University   Hamilton, ON
Pursuing a Bachelor of Engineering - Enrolled in Engineering I with cGPA of 11.5   *Sep. 2022 – Present*