

Lucas Giglioizzi

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EDUCATION

RYERSON UNIVERSITY

B. ENG. COMPUTER ENGINEERING

May 2020 | Toronto, ON

Computer Engineering with an emphasis in Software Engineering

2019-2020 Dean's List Recipient

EMILY CARR S. S.

Grad. June 2015 | Woodbridge, ON

Robotics club programmer grades 11 and 12

COURSEWORK

UNDERGRADUATE

Computer Networks

Embedded Systems

Machine Learning

Cryptography and Network Security

Object Oriented Programming

Digital System Design

Linux and Windows Development

SKILLS

TECHNICAL SKILLS

Proficient with:

Python • Django • JavaScript

Angular • SQL • HTML • CSS

Node.js • Git • AWS • GCP

Experience with:

C# • MongoDB • C

VHDL • Assembly • Matlab

Solidworks • uVision

MISCELLANEOUS

WORK EXPERIENCE

FELIX'S SWIM SCHOOL

SWIMMING INSTRUCTOR

Jul 2013 - Jul 2015 | Vaughan, ON

Taught children of various ages how to swim. Knowledge of the red cross swimming curriculum, in addition to the A.W.S.I., W.S.I. and Standard First Aid certifications were necessary to become a swimming instructor.

EXPERIENCE

NU TERRA LABS | INTERMEDIATE SOFTWARE DEVELOPER

September 2021 – Current | Remote

- Founding developer of NTL.
- Maintained and developed various projects for clients. Notably, the Respira IoT device and its infrastructure.
- Additionally, developed multiple Full Stack web applications using Django, Angular and GCP.

HOMEWORK HELP GLOBAL | FULL STACK DEVELOPER

January 2021 – Current | Remote | Part Time

- Developed new features for their CMS to improve workflow efficiency. Resolved issues as they arose. Developed in Python/Django and hosted on AWS.

NEW EARTH SOLUTIONS | PYTHON AND GCP DEVELOPER

November 2020 – September 2021 | Remote

- Researched and developed cloud based solutions to enable an IoT device (Respira) to communicate with a web application.
- Python and Django were used for the web application's back-end and Google Cloud was used for deployment. Notable GCP features used include SQL, Firestore, IoT Core, Pub/Sub, and Cloud Functions.

QUANTA VICI | BACK-END DEVELOPER

June 2020 – October 2020 | Remote

- Designed, developed, documented and deployed an API for Quanta Vici's back-end to be used on mobile and web platforms
- Utilizing Python, Django and DRF in conjunction with a PostgreSQL database, the RESTful API allows user registration, login, Gmail SSO, as well as product and user activity tracking
- BitBucket and Git were used for version control and it was deployed on AWS

AVAYA | SOFTWARE INTEGRATION ENGINEERING INTERN

May 2018 – Aug 2019 | Richmond Hill, ON

- Tested enterprise level and cloud-based telephony software, streamlined the software development process by automating testing and integration.
- C# and Ranorex were used for front-end automation and Python was used for back-end API testing.

PROJECTS

TRADER JOURNAL | [WEBSITE](#) [GITHUB](#)

Dec 2019 | Made with: HTML, CSS, Javascript, Node, Express, MongoDB

Traderjournal.com is a website that allows investors, daytraders, or anyone with an interest in financial instruments to track their transactions.

Notable features include: user authentication, password retrieval, RESTful back-end, responsive front-end.

DRONE BASED COMPUTER VISION AND LIDAR | [GITHUB](#)

Nov 2019 | Made with: Python, OpenCV, numPy, LiDAR, C, I2C

Working in a team of four, we utilized computer vision to compare images of soil/farmland to a database and determine soil characteristics.

*References available upon request