

JULIAN PATTERSON

COMPUTER SCIENCE STUDENT

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EDUCATION

Carleton University

Sept. 2021 - Apr. 2025

Honours BCS Computer Science 2025

Second-Year, Computer and Internet Security Stream

Relevant courses: Discrete Structures I & II, Intro to CS (Python), Intro to OOP (Java), Linear Algebra, Intro to Statistics, Calculus

SKILLS

LANGUAGES: Python, Java, HTML/CSS, JavaScript

TECHNOLOGIES: AWS, Docker, Kubernetes, GitHub, Linux, Flask, React

CERTIFICATIONS

AWS, Certified Cloud Practitioner

Aug. 2021 - Aug. 2024

EMPLOYMENT

Shared Services Canada, *Change Coordinator*, Ottawa, ON

May 2022 - Current

Acted as a liaison between the Operational Service Lines and Change Initiators for any IT change requests within the Government of Canada.

Validated and processed technical assessments relating to the adoption of new technologies within the Government of Canada.

Attended Change Advisory Board meetings.

Malpas Consulting, *Junior Consultant*, Ottawa, ON

Dec. 2020 - May 2022

Assisted clients in navigating the complexities surrounding cloud security, cloud migration, and infrastructure.

Created technical documents and graphs for internal company use in order to simplify information gathering in the future.

Helped create S3 Object Lambda functions with Python in order to transform data. Worked with Container Orchestration Tools, Zero Trust Architecture (ZTA) as well as different cloud service and deployment models.

Assisted in the migration solution of on-premise storage infrastructure to a hybrid cloud solution.

Worked with AWS API integration for web applications as well as AWS CloudFront and AWS Route 53.

Generocity, *IT Coordinator*, Ottawa, ON

Feb. 2021 - June 2021

Managed Generocity's IT operations, and ensured all company data and technology services were readily available.

Built a customer database to simplify product delivery for employees.

Implemented external customer service tools into a Shopify environment.

Generocity is a nonprofit organization that helps support local charities in the Ottawa area.

PROJECTS

Ethereum Trading Bot

2021

Developed an ETH trading bot in Python using the integration of Coinbase API.

microSales CRM Website

2022

Sales CRM tool designed for micro-enterprises. Allows micro-enterprises to manage sales and cold call records through a simplistic UI.

The website is deployed and is using SQL for our user database.

Created in the scope of the uHacks hackathon.

Project Brute

2022

Python script that uses web-scraping to find hidden and unprotected files in domain suffixes.

This web app was developed using Python, Flask, HTML + CSS and is currently being hosted on AWS EC2.

Initially deployed through AWS CLI with the use of Docker on a Lightsail container but was later migrated to EC2.

Uses SQLite for database management and SHA256 encryption for the passwords.