Allen Li

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EDUCATION

British Columbia Institute of Technology	Vancouver, BC
Computer Information Technology Diploma (CIT) GPA:86/100	*Jan 2022 – Dec 2023*
Kwantlen Polytechnic University	Vancouver, BC
General Studies	*Sep. 2017 – Sep 2019*

PROJECTS

Flappy Patrick | *Python, Pygame, Flask, HTML, JSON*   Sep 2022 – Dec 2022
- Developed a Flappy Bird clone with Python and Pygame, featuring real-time scoring and gameplay mechanics.
- Implemented a Flask server for score management and a web interface using HTML for score display.
- Integrated JSON for data handling and storage, and managed HTTP requests for score updates.
- Used object-oriented programming for effective game state and interaction management.

GPA Calculator (Group Project) | *Python, Flask, MongoDB, PyMongo, HTML, CSS, JavaScript*   May 2022
- Contributed to a collaborative GPA calculator, managing user data with Flask and MongoDB.
- Focused on frontend development using HTML/CSS for a responsive user interface.
- Implemented bcrypt for secure authentication and user registration features.
- Scrum-based Agile methodologies for iterative development and team collaboration.

Library Microservices | *Python, Flask, Kafka, Docker, MySQL, Nginx, Connexion, YAML*   Sep 2023 – Dec 2023
- Designed a library management system using a microservices architecture for various operational functions.
- Used Kafka for inter-service communication and MySQL for data storage and retrieval.
- Containerized services using Docker, ensuring consistent deployment across environments.
- Configured Nginx for request routing and load balancing across microservices.

Network Provisioning with Terraform and Ansible | *Terraform, Ansible, AWS*   Sep 2023 – Dec 2023
- Designed and provisioned an AWS-based infrastructure using Terraform for services including EC2, RDS, S3, and VPC.
- Configured EC2 instances for web and backend services using Ansible, ensuring efficient and secure operations.
- Automated setup of security groups, routing tables, and subnets to streamline network architecture.
- Managed dynamic inventory and role-based configurations in Ansible for scalable deployment of services.
- Developed Ansible playbooks for consistent and automated configuration of Nginx and MySQL services.

EXPERIENCE

YVR World Dufry Duty-Free	Vancouver, BC
Retail Sales	*August 2019 – April 2020*

- Demonstrated excellent service to customers with clothing, shoes and accessories.
- Improved customer satisfaction and boosted sales record.
- Built strong communication, teamwork skills and the ability to learn fast.
- Managed cash and credit payments and adhered to cash handling policies and regulations.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS, SQL, Bash
Frameworks/Libraries: Flask, React, Node.js, pandas, NumPy, Matplotlib
Tools & Platforms: Docker, Kubernetes, Git, GitHub, GitLab, Terraform, Ansible, Azure Cloud, AWS (EC2, RDS, S3, VPC), Kafka, Pygame, MongoDB, PyMongo, MySQL, Nginx, Linux, Windows OS, VS Code, PyCharm, Virtual Machines, Google Cloud Platform
DevOps & CI/CD: Jenkins, Gitlab-CI, Continuous Integration, Continuous Deployment
Methodologies: Agile, Scrum, Object-Oriented Programming (OOP), Microservices Architecture
Soft Skills: Strong communication, Team collaboration, Problem-solving, Fast learning, Adaptability, Fluent in English and Mandarin