

Felix Ezama-Vaughan

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EDUCATION

University of Calgary

Bachelor of Science in Computer Science, Specialization in Software Engineering

Calgary, AB

Sept. 2018 – Nov 2022

EXPERIENCE

Backend Developer

Jan. 2024 – Present

Ontopical

Calgary, AB

- Build and maintain distributed microservice components using Flask, PostgreSQL, OpenSearch, AWS Lambda, EC2, Batch, and S3 which process millions of documents monthly, ensuring robustness and scalability
- Develop python (pip) libraries to centralize components such as SQLAlchemy models, object serializers and enumerators, and common functionalities for interfacing with AWS services, increasing code reusability and standardization, and providing a common interface for developers
- Refactor existing microservices and components to better adhere to single responsibility principles, improving agility, scalability, fault tolerance, and performance
- Develop test suites using unittest and pytest increasing software coverage, client satisfaction, and ensuring secure and reliable data sharing, establishing standards and practices for future development
- Implement and apply reinforcement learning algorithms, such as Epsilon-Greedy Bandit, using TensorFlow to track and enhance feature interaction across our platform
- Write feature extraction algorithms using rule-based techniques to classify documents based on their content, leading to more accurate categorization
- Develop route-based security modules using Flask and SQLAlchemy to manage user authentication, input validation, permissions, verification of entity ownership, and regulation user activity, significantly increasing security and reliability

Full Stack Developer

Jan. 2023 – Jan. 2024

HV Logic Ltd.

Calgary, AB

- Developed and maintained proprietary business management software using React, NodeJS and MongoDB
- Performed end-to-end, unit and automated testing using Postman, Mocha, TestCafe and Jest, improving code maintainability, reliability, and coverage
- Conducted research to identify and address gaps in existing software, resulting in significant knowledge acquisition in the form of developer and user documentation and manuals

Backend Developer Intern

May 2022 – Nov. 2022

Reach Ltd.

Calgary, AB

- Contributed to the design, development, testing, and maintenance of microservices and API gateways using Java Spring Boot in a Linux environment
- Developed efficient scripts in Bash and Python to streamline team workflow and increase productivity
- Created innovative asynchronous notification handling components for a WooCommerce payment plugin in PHP
- Wrote comprehensive tests using JUnit, Mockito, RestAssured, and MockServer, which significantly improved code maintainability, reliability, and coverage
- Developed an internal service for API testing to mimic the functionality of webhook.site, reducing technical debt

PROJECTS

YouTube Caption Search Chrome Extension | *JavaScript, AWS, HTML, CSS*

Oct. 2023 - Dec. 2023

- Developed a Chrome extension that enables users to search YouTube captions in multiple languages and jump to associated timestamps within videos
- Utilized native JavaScript, HTML, and CSS for the extension's development
- Published the extension on the Chrome Web Store

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL (PostgreSQL), Bash, PHP

Libraries/Frameworks: React, Node.js, Spring Boot, Flask, Boto3, Scrapy, JUnit, Mockito, Django, Express, FasterXML, Mongoose, Mocha, TestCafe, Jest, Pytest, Unittest

Developer Tools: Git, Github/Bitbucket, Docker, Redis, MongoDB, AWS, OpenSearch, Maven, Gradle, npm, Terraform, Jenkins