

Ali Raza Zaidi

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Skills

Ordered from greatest to least proficiency

Languages: Python · Bash · Javascript · C/C++ · HTML5 · CSS3 · Java · SQL · R · C#

Tools: Git · Linux · Docker · REST · Flask · CI/CD · Agile · OOP · Bootstrap · React · GraphQL · Web Scraping · CVS

Education

University of Waterloo

Bachelor of Computer Science

Cumulative GPA:

Waterloo, ON

09/2020 - 04/2025

92.2%

Relevant Courses:

· Object-Oriented Programming (CS246)

98%

· Data Structures & Algorithms (CS341)

88%

Experience

Software Engineer · Bank of America

Toronto, ON · 05/2023 - 08/2023

- Designed, implemented & deployed an extensible, full-stack web-based dashboard with a modern UI and collected team stats via APIs (JIRA, CVS, Test Results, Job Monitoring, Code Coverage), increasing team uptime, leading to a **3x** reduction in PROD & UAT failures, using **Python, Flask, UML, OOP, HTML, CSS, Bootstrap 5.3**.
- Refactored existing Flask apps to consolidate resource utilisation, decrease extraneous resource usage by **10%** and improve application speed by **2s** on each request using **threading, Flask Blueprints & dynamic endpoints**.
- Analyzed multiple failures in high-importance applications to debug errors & add redundancy prior to productionization.
- Increased team productivity through analysis of logs and ELK statistics to decrease extraneous messages by **60%**.

Software Engineer · BMO Capital Markets

Toronto, ON · 09/2022 - 12/2022

- Constructed a generalized banking web scraper worth **\$500K** annually, to parse **10,000+** financial product offerings from all major Canadian banks using **OOP, Docker, Python, SQL & Gitlab CI/CD** for use in notes pricing.
- Facilitated development of **5+** secrets-secure Gitlab DevOps pipelines for Python services such as Flask APIs & cron jobs, using **Docker, Cron schedulers & Bash**, leading to increased developer productivity across the team.
- Optimized performance & UI/UX of live data leading to an **80%** decrease in latency, using **ReactJS**.
- Improved DB loading processes to facilitate additional CSV file persistence in addition to lowering data loading times by **25%**, using **C#, Bash & PostgreSQL**.

Software Developer · UHN - CanDIG Project

Toronto, ON · 01/2022 - 04/2022

- Expanded GraphQL API, allowing for complex genomic queries on data with **100+** traits, using **Python (FastAPI)**.
- Revamped the CI/CD process for the GraphQL API, increasing efficiency using **TravisCI, Docker & Postman**.
- Performed ML/FL genomic data analysis on breast cancer classification, using **Python, Scikit-learn & Pandas**.
- Restructured ML/FL repo to implement scripts for privacy-protected ML/FL, using **Python, Docker & Bash**.

Software Development Intern · Furnishr

Toronto, ON · 05/2021 - 08/2021

- Spearheaded the development of web scraping scripts to collect detailed product information for **200,000+** products, fully automating the ETL process through **Python, Selenium, BeautifulSoup & PostgreSQL**.
- Developed a scripting tool using **Python, SQL, Pandas & Selenium** that would load customer designs and pricing plans into Google Drive in under **20** seconds, to reduce downtime for the Sales team.
- Prototyped several iterations of a *SlackBot* using **Heroku & Flask** to reduce downtime for the Sales team.
- Refactored **10+** web scrapers used in the organization to mesh with the updated code architecture.

Projects

CaPredictor · Python · Flask · HTML5 · CSS3 · Bootstrap · Git · Heroku · Scikit-Learn

- Constructed a website to project the market value of **900+** NHL players.

ACNH Bot - V2 · Git · Python · Docker · GitHub Actions CI/CD · FastAPI

- Developed an autonomous Twitter Bot to broadcast daily **ACNH** updates.
- Developed a wrapper for the existing ACNH API to add support for complex queries and immediate tweet generation, decreasing lead time for tweets by **99.25%** & allowing for microservice-driven development for the new ACNHorizonsBot.

Personal Website · ReactJS

- A personal portfolio hosted on GitHub Pages.