Arthur Atangana

contact@arthuratangana.com | www.arthuratangana.com | github

SKILLS

Languages: French (fluent), English (fluent).
Programming Languages: Python, Java, C, Bash, SQL (Postgres), JavaScript (Node.js), Visual Basic.
Other Frameworks & Tools: Git, AWS (EC2, S3, Lambda, CloudFormation, DynamoDB), Linux, Jira, Bitbucket, Docker, JUnit, Pytest, Jest, Pandas, NumPy, Selenium, ARM microcontrollers, Raspberry Pi.

EDUCATION

Carleton University   Ottawa, Canada

Bachelor of Engineering in Software Engineering, Co-op   *Sept. 2020 – May 2024*

- Awards: Dean's List
- Course work: Algorithms and Data Structures, OOP, Operating Systems, Discrete Structures

University of Ottawa   Ottawa, Canada

Bachelor of Social Sciences in Political Science and History, Co-op   *Sept. 2015 – Dec 2019*

- Awards: Cum Laude

EXPERIENCE

Devops Engineer Co-op   Jan. 2023 – April 2023

ProntoForms   *Ottawa, Canada*

- Developed security filters in **Python** that enabled custom monitoring for specific AWS instances.
- Addressed production bugs and features in **Docker** containers and existing AWS and 3rd party services using **Kanban** to prioritize tasks and utilizing **CI/CD** pipelines to rapidly iterate.
- Optimized repository secret scanner using **Bash scripting**, reducing security alerts by 50%.
- Refactored **AWS Cloudformation** deployments to **AWS SAM** using **Node.js**, enabling **Lambda@Edge** updates for **AWS Cloudfront** distributions.
- Increased test coverage using **Pytest** for multiple deployment **Bitbucket** pipelines.

Junior Software Developer   Sept. 2020 – Dec 2022

ISED Canada   *Ottawa, Canada*

- Designed and developed **ETL** processes to clean and categorize data based on string matching algorithms using python and **postgreSQL**, resulting in a 40% increase in matching speed and accuracy.
- Implemented automated python scripts to transform data for ingestion by **AWS Glue** and **AWS QuickSight**.
- Implemented sorting algorithms in **Visual Basic**, improving efficiency for the data analysis of a 5G equipment database.
- Built and debugged a web-scrapper application in python, leveraging **Numpy**, **Selenium** and **BeautifulSoup4**.

Research Intern   May 2019 – Aug. 2019

Ericsson Inc.   *Ottawa, Canada*

- Developed a quantitative study of governmental, industrial, and academic participation in the development of international standards which discovered actionable trends.
- Presented results with great success in front of industry and governmental stakeholders, leading to widespread support for new policies adoptions.

Junior Project Officer   Sept. 2018 – May 2019

International Telecommunication Union   *Geneva, Switzerland*

- Lead the design of a database for Intelligent Transport Systems (ITS) communication standards used by the ITU and other standards development organizations.
- Researched global ITS regulations from the FCC, CEPT and other national and international bodies.

Projects

notScrabble | *Java, JUnit*
- Developed a fully featured scrabble game with multiple players, AI players, automatic word verification, blank tiles and more.
- Used standard **JUnit** testing practices to cover the codebase, and ensure that the game would function bug free.
- Work with group members to methodically design features, logic and other implementations.

Python Image Editor | *Python, NumPy, Simpl*
- Coordinated a team of student throughout the term to the successful completion of a python image editor project in ECOR 1042 - Data Management.
- Developed the editor and its various filters (curve polynomial interpolation, edge detection, color scale).
- Debugged and optimized the image editor to properly display graph lines and color changes.
- Developed an interactive UI and a batch processing UI to process many images at once.