

# Arthur Atangana

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## SKILLS

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**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, Pandas, NumPy, Selenium, ARM microcontrollers, Raspberry Pi.

## EDUCATION

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### 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

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### 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

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### **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.