

Jacob Kszan

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EDUCATION

BSc. Honours Computer Science

Ottawa, ON | Sept 2019 - Present

University of Ottawa

GPA: 3.9/4.0 | 9.33/10

COURSEWORK: Data Structures and Algorithms, Computer Networking, Discrete Structures, Algorithm Design and Analysis, Software Testing, Database Design, Operating Systems

ADDITIONAL ACHIEVEMENTS: Dean's List 2019-2021

TECHNICAL SKILLS

FRAMEWORKS/TECHNOLOGY: Jenkins, Docker, Docker Compose, Ansible, AWS, CI/CD, REST APIs, Flask, Swagger, Selenium, Wireshark, Tableau

LANGUAGES: Java, Groovy, Python, C, C++, C#, SQL, Kotlin, Golang, Bash, JavaScript, Racket, HTML

TOOLS: Jira, Confluence, Bitbucket, Git, SVN, Linux, Postman, UML, Agile, Kanban

WORK EXPERIENCE

CIENA CORPORATION | DEVOPS ENGINEER INTERN

Ottawa, ON | Jan 2022 – May 2022

- Designed and implemented a system to dynamically run high-cost integration tests based on code changes using Jenkins, Postgres and Flask.
- Fixed several critical bugs in the existing code base, implementing wide procedural changes to address the root cause and prevent similar issues in the future.
- Led many high-level design discussions related to the creation of new pipelines and workflows as well as large scale improvements to legacy systems.
- Refactored components of the central REST API, extending the security policy and creating a new error-handling strategy from scratch.
- Used Docker and Ansible to create fully sandboxed environments for applications used in both production and development.

LOCKHEED MARTIN | SOFTWARE ENGINEER INTERN

Dartmouth, NS | Sept 2021 - Dec 2021

- Created Jenkins pipelines to automatically manage deployment into and management of Artifactory.
- Deployed, debugged and developed containerized services in Docker
- Used Bash, Groovy and Python to automate developer workflows.

PROJECTS

Glassdoor Review Analysis Engine

Docker, Python, Flask, MySQL, Selenium, Tableau

[HTTPS://GITHUB.COM/JKSZAN/REVIEW-ANALYZER](https://github.com/jkszan/review-analyzer)

- Scrapes reviews using Selenium through a REST API, storing them in a MySQL database.
- Produces dynamic, filterable dashboards showing review information over time.
- Fully containerized within Docker Compose.

Menace AI Project

Machine Learning, Java, Object-Oriented Design

[HTTPS://GITHUB.COM/JKSZAN/MENACE](https://github.com/jkszan/menace)

- AI programmed in Java to learn how to play Tic-Tac-Toe.
- Has multiple different partners to train against (Perfect, random, and second Menace instance).
- Includes a fully implemented interface to allow the end user to play.