

# JULIAN MENDOZA

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## Education

### Carleton University

Sept 2017 - Apr 2022

#### Bachelor of Engineering - Software Engineering - Fourth Year Standing

- **Courses:** OOP, Algorithms & Data Structures, Concurrent Systems, Project Management, Architecture and Design, Testing and Validation, Network and Software Security, Computer Communications
- **CGPA:** 10.69/12 - Deans Honor List throughout all semesters

## Skills

Languages:	Java, Python 3, JavaScript, C, HTML, CSS, C++, PHP
Technologies:	Git, Travis CI, Maven, Spring Boot, Angular8, Flask, Pandas, Linux, PostgreSQL, MongoDB
IDE:	VSCode, IntelliJ, Atom, Eclipse

## Employment

### Carleton University

Ottawa, ON

Teaching Assistant (4 semesters) - Systems and Computer Engineering Department Sept 2019 - April 2021

- Taught first year students programming fundamentals; data management and image processing in Python.
- Helped second year students understand different sorting algorithms and basic data structure designs.
- Involved in teaching OOP to second year students. Explained the concepts of abstraction, encapsulation, inheritance, and polymorphism.
- Marked midterms, assignment, labs, and projects and provided constructive feedback.

### CRA

Ottawa, ON

IT Developer Intern (Part Time) - Technology Integration Team

Jan 2020 - Apr 2020

- Designed and implemented a web-based dashboard in Angular 8 to show statistics conducted from a sentiment analysis
  - Used JavaScript libraries to create responsive and eye-catching modules such as charts, tables, and a geographical heatmap.
  - Used RESTful APIs in Express.js to handle data transfer
- Worked in an Agile environment, participated in weekly sprints and daily scrum meetings.
- Conducted research on applications of cloud technologies - achieved a certificate on Azure fundamentals

## Projects

**GitHub:** <https://github.com/JulianMendoza>

### Mock Survey Monkey

Simulate software development in the real world | Agile environment | Spring Boot | JavaScript

- CI/CD pipeline using Travis CI and deployment in Heroku
- Source control using Git, actively review and send pull requests, view project progression via Kanban

### Discrete-Event Simulation

Performed a simulation study on a manufacturing facility | Java | Excel

- Applied the simulation process to determine how to design, implement and improve an existing system.
- Implemented the appropriate infrastructure: priority queues and event schedulers.

### Miner Guys

An application used to track the safety of Miners | Python Flask | Twilio API | Bootstrap4

- Schedule hourly calling/SMS to a list of workers and log their responsiveness
- Ability to add/remove and change the worker list through the front-end