

# JULIAN MENDOZA

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## Education

### Carleton University

Sept 2017 - Apr 2022

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

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

## Skills

Languages: Java, Python 3, PHP, JavaScript, C, C++

Technologies: React.js, Express.js, Angular.js, Postgresql, Azure, Git, Travis CI, Linux, Maven, Flask

IDE: VSCode, IntelliJ, Atom, Eclipse

## Employment

### Carleton University

Ottawa, ON

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

- Taught first year students programming fundamental, data management and image processing in Python.
- Guided second year students with their labs involving sorting algorithms and data structure design.
- Involved in teaching the concept of OOP to second year students. Explained the concepts of abstraction, encapsulation, inheritance, and polymorphism. Introduced students to UML and different design patterns.
- Marked midterms, assignments and labs while giving 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:** [github.com/JulianMendoza](https://github.com/JulianMendoza)

### Survey Monkey Knock-off

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

- CI/CD pipeline using Travis CI and Heroku
- Source control using Git, use of 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 the system.
- Implemented the appropriate infrastructure: priority queues and schedulers.

### Miner Guys

An application used to track the safety of Miners | Python Flask | Twilio API | Bootstrap5

- Schedule hourly calling to a worker list and log whether the user picked up
- Ability to add/remove and change the worker list through the front-end