

# Kian Bazarjani

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## EDUCATION

### University of Ottawa

BSc with Honours in Computer Science, Data Science Stream

Ottawa, ON

Sept 2018 – Apr 2023

## EXPERIENCE

### Software Developer Intern

Department of National Defence

Sept 2021 – Present

Ottawa, ON

- Participated in the initial delivery of a classified project with a combined budget of \$249 million
- Contributed to major improvements of intelligence & security capabilities on highly classified information networks
- Oversaw the development of an internal publishing platform solution to efficiently store documentation, resulting in marked improvements in day-to-day operational efficiency
- Authored comprehensive documentation outlining project solutions installation, configuration, and usage, leading to client satisfaction and increased employee onboarding efficiency

### Software Development Team Lead

UO Supermileage

Aug 2021 – Sept 2022

Ottawa, ON

- Wrote accessory control board code for operating turn signals, speedometer, steering wheel display, etc.
- Designed and maintained team website using Hugo, Javascript, and HTML/CSS
- Maintained up-to-date documentation for codebase using Github
- Coordinated with team leads during weekly meetings to reach deadlines

### Hydroponics Design Engineer

University of Ottawa

Jan 2019 – Aug 2019

Ottawa, ON

- Designed a greenhouse shed for Aboriginal community in Quebec with a custom-made hydroponics system
- Worked with aboriginal community members to ensure the project met their needs & requirements
- Collaborated in small group to design structural and electronics system
- Hand-delivered and setup near community town hall in Summer 2019

## PROJECTS

### Honours Project: Using Machine Learning to Generate Password Lists (Dr. Carlisle Adams)

Jan 2023 – Present

- Investigated applications of text processing & image analysis to generate password lists

### DeltaCore | PaperAPI, Java, Maven, Git

May 2020 – Present

- Plugin for Minecraft server owners, written in Java
- Implements asynchronous database loading and dynamic data caching
- Supports both flatfile and remote storage options, such as Json, H2, MongoDB, and SQL

### Simple Menus | Java, Commons Lang, TravisCI, Maven, Git

Apr 2021 – Present

- Lightweight API for creating menus in command line interfaces, written in Java
- Facilitates menu creation by defining header style, menu title, and menu options
- Full navigation support allows menu linking and backwards navigation

## TECHNICAL SKILLS

**Languages:** Java, Python, HTML/CSS, JavaScript, Go, C/C++, SQL (Postgres, MSFT), OCaml, R,  $\LaTeX$

**Frameworks:** React, Express, Node, Next, Angular

**Developer Tools:** Git, Visual Studio Code, Docker, IntelliJ IDEA, Maven, R Studio

**Libraries:** MUI, Lodash, Moment, Gson

## RELEVANT COURSES

**Computer Science:** Java/Python/C/C++/OCaml · Data Structures · Algorithms · Databases · Data Science · AI/ML

**Math:** Calculus · Linear Algebra · Discrete Math · Probability · Statistics · Ordinary Differential Equations

## OTHER INFORMATION

**Languages:** English, French, Farsi