

# Dominic Gartner

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## EDUCATION

**University of Calgary**  
*Bachelor of Science in Engineering (Software Engineering)*

**Calgary, Canada**  
*September 2021- Present*

## SKILLS & INTERESTS

**Skills:** C/C++, Desktop Application Development, Qt, VTK, GitHub, Git, Visual Studio Code, Xcode, Microsoft Office-2019(Word, Excel, PowerPoint), HTML5, CSS3, JavaScript, ReactJS, Python, SQL, MySQL, database design, relational databases, RiscV-Assembly, Java, OOP, Web development, Terraform, AWS, Unit testing, Software Design, Software Architecture

**Interests:** AI and Machine Learning, Computer Vision, Aerospace, Drones, Embedded Programming, Web Development

## WORK EXPERIENCE

**Bentley Canada (Seequent)** **Hybrid**  
*Software Developer Intern* *May 2024-September 2025*

- C++ Desktop application development
  - Focused on developing a 3D rendering software tool for geotechnical engineers
  - Focuses on computer graphics (VTK and Qt), inter-process API's, software testing
- Scrum master
  - Scheduling, leading and coordinating daily scrum and inter-team scrum review meetings
  - Scrum and Iteration planning, bug estimations
- Build Triage
  - Analysis of DevOps pipeline build failures. Investigation into solutions to fix these failures / timeouts

**Dealfinder-9000** **Remote**  
*Front-End Developer, Part-time* *September 2023-Present*

- Working part-time for a tech start-up as the lead front-end developer, creating the website for the company
- Technologies being used: Next.js, TypeScript, Google Firebase

**The Brick** **Calgary, Canada**  
*Merchandiser, Part-time* *July 2021-October 2023*

- Worked part-time as a merchandiser at The Brick, Sunridge. My responsibilities included building and displaying store furniture, prepping and coordinating client deliveries, facilitating customer pickups, and various other warehouse duties

**Taste of Calgary** **Calgary, Canada**  
*Customer Service* *2017- 2019*

- I worked at the Taste of Calgary for two summers taking orders, serving food, handling money, and talking to the public in a very fast paced environment

## PROJECTS

**Data Structures** | **Java**

- Re-created data structures such as SLL, DLL, CDLL, CSLL, queue, stack, AVL tree, and BST.
- Apache Maven used to build importable module of the data structures

**Full Stack Obituary Website** | **ReactJS, HTML, CSS, Python, Terraform, AWS, ChatGPT API, Cloudinary**

- Published an obituary web application which uses amazon services such as amazon polly, AWS Lambda, AWS Parameter Store, and DynamoDB
- Incorporated Cloudinary to store and manipulate user image inputs
- Implemented Python functions to access API's

**Animal Shelter** | **Java, SQL**

- Implemented a solution to a client problem which creates the most optimal schedule for a client based on an SQL database
- Fully documented, modeled, and tested application
- Incorporates a GUI and allows for database manipulation

## STUDENT CLUBS

**Schulich Unmanned Aerial Vehicles (SUAV)** **Calgary, Canada**

- A team of engineering students at the University of Calgary tasked to design, create, and test an **autonomous drone**.
- The club competes at an international competition in Maryland against universities from around the world

**AI Subteam Lead** *July 2024 - Present*

- Designed an **ML architecture** from scratch for the task of **detection, classification, and localization** of objects
  - Used the YOLO detection algorithm to construct an ML pipeline
- Designed an algorithm to calculate precise longitude and latitude coordinates of detected targets
- Led a team of engineers to develop an accurate detection and classification system using tensorflow

**Software Team Member** *October 2022 - July 2024*

- Worked on a **GCS** system using a Python (Flask) backend communicating with an onboard Raspberry pi using a RocketM5
- Develop a manual detection system, allowing a user to easily select a target of interest and send the calculated spatial coordinates to a flight controller
- Worked on extracting meta data from images and using a geolocation algorithm to determine ML detection locations

## ACHIEVEMENTS

**Dean's List** **Calgary, Canada**  
*August 2022, August 2023*

- **Faculty of Science dean's list** in my 1st, 2nd, and 3rd school year at the University of Calgary. Currently holding a gpa of **3.89**.

## CERTIFICATIONS

**Tech Stewardship** **Calgary, Canada**  
*August 2022*

- **Engineering ethics course** focused on ethical creation and implementation of future technology

**TCPS 2: Core Research Ethics** **Calgary, Canada**  
*May 2022*

- **Research ethics course** provided by the **government of Canada**
- Course was required to carry out research involving human participants – including their data and/or biological materials

## VOLUNTEERING

**Saint Vincent de Paul Food Bank** **Calgary, Canada**  
**TD Tree Day** **Calgary, Canada**  
**Inn From the Cold** **Calgary, Canada**