

# Gabriel Ethan Vainer

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## EDUCATION

### University of Toronto

*Specialist in Computer Science; Software Engineering Stream*

Toronto, CAN

*Sep. 2020 – Apr. 2024*

**Awards:** 2021 Dean's List, University of Toronto Entrance Scholarship

## TECHNICAL SKILLS

**Languages:** Python, C, Java, JavaScript, HTML, CSS, SQL

**Frameworks and Databases:** React, Django, Mongo DB Spring, Cucumber, MySQL, Firebase Realtime

**Environments and Tools:** Linux/UNIX, Maven, Selenium, Git, Node.js, Material UI, Postman, JUnit, Jira, WordPress

## EXPERIENCE

### Software Developer Intern

Apr. 2022 – Mar. 2022

*Empyrean Medical Systems*

*Miami, USA*

- Rebuilt Empyrean's **Dosimetry Calculation Engine** in **C**, implementing **Dose Calculation Algorithms** and **Voxel Interpolation Methods** to compute estimated and effective ionizing radiation doses for **Interventional Radiology** Staff
- Constructed **TCP/IP** socket protocols within the engine to facilitate effective communication of dose calculations between users and Interventional Radiology devices
- Transformed the original engine into a well-structured, non-monolithic system, reducing the main engine file by **64%** while maintaining functionality, responsibility, and clean architecture.

### Software Engineer Intern

Jan. 2022 – April 2022

*Royal Bank of Canada (RBC)*

*Toronto, CAN*

- Utilized **Java**, **Maven**, **Postman**, **Git**, and **Spring** to implement new Microservice backend features for the Featured File Scenario and Profile Compliance APIs within RBC's client systems application
- Implemented comprehensive end-to-end test cases using the **Cucumber Framework** to ensure the reliability, functionality, and performance of critical software systems.
- Collaborated with a cross-functional team of developers, designers, and product managers through **Agile** methodologies such as **Scrum** and **Kanban** to deliver high-impact software solutions on time and within budget.

### Frontend Developer

Nov. 2022 - February. 2023

*Taichi Graphics*

*Toronto, CAN*

- Designed, wrote, and polished Taichi's frontend application for technical documentation using **React** and **Docusaurus**, enabling developers and contributors to quickly set up and run Taichi's open-source projects.
- Facilitated communication with end-users and other team members to incorporate feedback into deliverables, ensuring the highest level of user satisfaction and product quality.

### Teaching Assistant

January 2023 - Present

*University of Toronto*

*Toronto, CAN*

- Facilitated student learning and engagement as a lecture TA for **CSCA08**, an introductory course on procedural programming in **Python** and core computer science topics including **Algorithms** and **Complexity**

## PROJECTS

**deChess** | *ETHGlobal Hackathon, ReactJS, Javascript, Chessground*

- Co-developed a P2P chess platform with NFT pieces and chat system using **React** and js-waku which won over **\$6000** from 5 sponsors

**Promedio** | *Mongo DB, Express.js, ReactJS, Node.js*

- Built a website with **MERN** stack to help **400+** students track their cGPA and reduced academic calculation time from **4 minutes** to **2 seconds**

**BookMeBot** | *Python, Javascript, Node.js, Selenium, Git, MySQL*

- Developed a **booking automation API** using **Selenium** and **Python** for a chat bot that allows users to quickly book multiple gym times in advance (via Discord and Facebook Messenger) without authentication or web navigation