

# Dmitriy Prokopchuk

☎ 437-984-8517 ✉ [dimprokopchuk@gmail.com](mailto:dimprokopchuk@gmail.com) [in](#) [Linkedin](#) [G](#) [Github](#) [globe](#) [Portfolio](#)

Passionate 3rd year CS student with a background in Back End, Cloud, API, and Microservice development. Seeking a final 4-month internship in Back End and Cloud development to create scalable, performant, and reliable solutions.

## Education

### University of Toronto

Sep 2021 – Jun 2025

Honours BSc Computer Science Co-op | **4.0/4.0 GPA** | Dean's List 2021-2023

Toronto, ON

- Lester B. Pearson Scholarship - Full-ride | **\$350 000+**
- 2022 UofT Excellence Award - Summer Research Fellowship | **\$7500**
- 2022 UofT Scholar In-Course Award - Top 20 students entering second year | **\$1500**

*Courses: Design & Analysis of Data Structures, Software Design, Intro to Databases & Web Applications*

## Experience

### Undergraduate Research Assistant

Feb 2023 – Present

University of Toronto, Computational Social Science Lab

Toronto, ON

- Led the back-end systems design and development for a Chess AI platform **API** for providing machine learning analyses using **Python, FastAPI, MongoDB, Nginx, and Docker**.
- Developed critical **RESTful** back-end accounts, data collection, caching, game ingestion, and user statistics systems.
- Optimized **asynchronous** parallel job queues for processing **AI** analyses to improve API endpoint response times by **1000%+**, and refactored existing code to increase server stability and uptime by over **2x**.

### Software Developer Co-op

May 2023 – Aug 2023

Royal Bank of Canada

Toronto, ON

- Created scalable and highly available **REST API microservices** for payment transaction systems in an **Agile** team using **Java, Springboot, Microsoft Azure, Kafka, and Elasticsearch**.
- Resolved deployment issues for **containerized** services on **Azure-hosted Kubernetes** clusters, reducing high and critical security vulnerabilities by **100%** and increasing availability.
- Implemented database-linked feature flags to repoint internal API calls in line with other teams' API downtime using **MS SQL Server and Togglz**, increasing uptime by **30%**.

### Undergraduate Research Assistant

Nov 2021 – May 2023

University of Toronto, Ontario Institute for Studies in Education

Toronto, ON

- Created **25+** web-scrapers using **Python, BeautifulSoup4, and Selenium** to aggregate a worldwide university metrics database, resulting in a UTEA research award valued at \$7500.
- Engineered data discrepancy flagging systems for **CSV and SQL** DBs, allowing for streamlined research analysis.

### Software Engineer Co-op

Sep 2022 – Dec 2022

PointClickCare

Mississauga, ON

- Developed and unit-tested authentication, authorization, and DB back-end systems for **4** data processing ETL pipeline **REST APIs** using **Java, Springboot, OAuth2, Kafka, and MS SQL Server** in an **Agile** environment.
- Enabled the deployment of multiple microservices to a **Jenkins** pipeline and set up integration with multiple **Microsoft Azure** services using **Helm Charts and Terraform** scripts.

## Projects

### Full-Stack Music Visualizer | *Java, Springboot, ReactJS, p5.js, Docker, Azure, Netlify* | [GitHub](#)

- Implemented a **Java and Springboot REST API** for uploading and downloading music over **HTTP** protocols.
- **Containerized** Springboot application and deployed using **Docker, Microsoft Azure, and Netlify**.
- Developed a web-based music player that visualizes the audio frequency spectrum using **ReactJS and p5.js**.

### Android Venue Booker | *Java, Android Studio, Firebase* | [GitHub](#)

- Created a **Java Android application** for the creation and booking of venues and events.
- Implemented **NoSQL** data storage, asynchronous data updating, and authentication with the **Firebase API**.
- Acted as **Scrum Master** for a team of **5** members, using **Jira and Github** for collaboration.

## Clubs & Volunteering

### Google Developer Student Clubs

Sep 2023 – Present

Director, Partnerships

Toronto, ON

- Helping expand GDSC to University of Toronto's Scarborough Campus for the first time ever.

## Technical Skills

**Languages & DBs:** Java, Python, MS SQL Server, SQLite, MongoDB, Elasticsearch, Bash, C, JavaScript, HTML, CSS  
**Frameworks:** Springboot, Azure, ReactJS, FastAPI, Flask, Firebase, Selenium, Agile  
**Tools:** Docker, Jenkins, Jira, Git (GitHub, Bitbucket), Nginx, Terraform, Maven, OAuth2