📞 437-984-8517 🛛 dimprokopchuk@gmail.com 🖬 Linkedin 🖸 Github 🌐 Portfolio

Passionate 3rd year CS student with a background in Back End, Cloud, API, and Microservice development. Seeking an internship in Back End, Cloud, and Software Engineering to create scalable, performant, and reliable solutions.

Dmitriy Prokopchuk

Education

University of Toronto

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

- 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

University of Toronto, Computational Social Science Lab

- Led the back-end systems design and development for a Chess AI platform API for providing machine learning analyses using Python, FastAPI, MongoDB, Nginx, Git, 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

Roval Bank of Canada

- Created scalable cloud-native **REST API microservices** for payment transaction systems in an **Agile** team using **Java**. Springboot, Microsoft Azure, Kafka, Elasticsearch, and Git.
- Brought **OAuth2** security, token parsing and verification systems to an entirely new payments API layer, ensuring security for **10000+** daily high-volume B2B transactions.
- 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

University of Toronto. Ontario Institute for Studies in Education

- 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 SOL** DBs, allowing for streamlined research analysis.

Software Engineer Co-op

PointClickCare

- Developed and unit-tested authentication, authorization, and DB back-end systems for 4 data processing cloud ETL pipeline REST APIs using Java, Springboot, OAuth2, Kafka, and MS SOL 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

Distributed Cloud Compute Framework | Java, Kubernetes, Docker, PostgreSQL, Kafka, Springboot | GitHub

- Created a **scalable** distributed computing framework tailored for the cloud.
- Implemented processing for custom Docker-based jobs with Springboot, and asynchronous job-queues with Kafka.
- Enabled horizontal scalability with **Kubernetes**, with real-time job tracking over a **PostgreSOL** Database.

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.is**.

Clubs & Volunteering

Google Developer Student Clubs

Director, Partnerships

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

Technical Skills

Languages & DBs:	Java, Python, MS SQL Server, PostgreSQL, MongoDB, Elasticsearch, Bash, C, JavaScript, HTML, CSS
Frameworks:	Springboot, Azure, FastAPI, ReactJS, Flask, Firebase, Selenium, Agile
Tools:	Docker, Kubernetes, Kafka, Jenkins, Jira, Git, Nginx, Terraform, Maven, OAuth2

Feb 2023 – Present

Sep 2021 – Jun 2025

Toronto, ON

May 2023 – Aug 2023

Toronto, ON

Toronto, ON

Toronto, ON

Sep 2022 – Dec 2022

Nov 2021 - May 2023

Mississauga, ON

Sep 2023 – Present

Toronto, ON