

Dmitriy Prokopchuk

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EDUCATION

University of Toronto

2021 – 2025 (Expected)

Honours BSc Computer Science | 4.0 GPA

Toronto, ON

- Lester B. Pearson Scholarship - Merit Based | **Full-ride for 4 years**
- 2022 University of Toronto Excellence Award - Summer Research Fellowship | **\$7500**
- 2022 University of Toronto Scholar In-Course Award - Top 20 students entering second year | **\$1500**
- 2021-2023 University of Toronto Dean's List of Academic Excellence

EXPERIENCE

Software Developer Co-op

May 2023 – Present

Royal Bank of Canada

Toronto, ON

- Created data conversion, fetching, and event notification systems using **Java, Springboot, Kafka, Elasticsearch, and MS SQL Server** for payment transaction **REST microservices** under an **Agile** environment.
- Implemented database-linked feature flags to repoint internal API calls in line with other teams' API downtime using **Togglez, Springboot, and MS SQL Server**, saving **30min+** of developer time for a repetitive and routine task.

Undergraduate Research Assistant

Feb 2023 – Present

University of Toronto, Computational Social Science Lab

Toronto, ON

- Developed critical **RESTful** back-end game ingestion, provision, data collection, logging, and user statistics systems for a Chess AI platform website using **Python, FastAPI, MongoDB, Nginx, and Docker**.
- Optimized use of **asynchronous job queues** for processing and storing AI game analyses to improve API endpoint response times by **1000%+**, and refactored existing code and configs to increase server stability and uptime by **2x**.

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**, resulting in comprehensive databases on university metrics and a UTEA research award valued at **\$7500**.
- Formatted and engineered standalone **CSV and SQL databases** with **1,000,000+** datapoints and flagging systems for data and scraping discrepancies, allowing for streamlined analysis in **NVivo**.

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 pipeline **REST APIs** using **Java, Springboot, OAuth2, Mockito, and MS SQL Server** in an **Agile** environment.
- Implemented an audit system for **Springboot** microservices using **Kafka**, allowing for **1000+** **secure audits** to be sent to an **Azure Event Hub** every month.
- Enabled the deployment of multiple **microservices** to a **Jenkins** pipeline and set up integration with **Helm Charts** and multiple **Microsoft Azure** services through **Terraform** scripts, increasing Sprint velocity by **30%**.

PROJECTS

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

- Developed a **full-stack** music player site that visualizes the audio frequency spectrum using **ReactJS** and **p5.js**.
- Implemented a **Java and Springboot REST API** for uploading and downloading multi-part files.
- **Dockerized** Springboot application and deployed using **Azure**. Deployed front-end using **Netlify**.

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

- Created a **CRUD Android application** with **Java** 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.

Hack the Valley 5 Hackathon | *Python, OpenCV2, MediaPipe* | [DevPost](#), [GitHub](#)

- Developed a **Python computer vision** program to allow for gesture-controlled presentations.
- Prioritized multiple tasks in a fast-paced environment to learn and apply **OpenCV2** and **Google MediaPipe** computer vision technologies within a timeframe of **38 hours**.

TECHNICAL SKILLS

Languages & DBs: Java, Python, C, MS SQL Server, SQLite, MongoDB, Elasticsearch, Bash, JavaScript, HTML/CSS

Frameworks & Methodologies: Springboot, Azure, ReactJS, FastAPI, Flask, Firebase, Selenium, Agile

Tools: Docker, Jenkins, Jira, Git (GitHub, Bitbucket), Nginx, Terraform, Maven, Heroku, Netlify, OAuth2