Dmitriy Prokopchuk

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EDUCATION

University of Toronto   Toronto, ON
Honours BSc Computer Science | 4.0 GPA   *2021 – Present*

- 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
- 2021-2022 University of Toronto Dean's List of Academic Excellence

EXPERIENCE

Undergraduate Research Assistant   Nov 2021 – Present
University of Toronto, Ontario Institute for Studies in Education   *Toronto, ON*

- Created **20+ web-scrapers** using **Python, BS4, and Selenium**, resulting in databases with **1,000,000+** data points for analysis and a UTEA research **award valued at $7500**.
- Formatted and created standalone **CSV and relational databases** with 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 auditing, authentication, and DB querying **back-end** systems using **Java, Springboot, Junit, Mockito, Kafka, and MS SQL Server** in an **Agile** environment for **3+ REST APIs**.
- Created a system for dynamically rendering **Material UI** icons in **React**, optimizing page load times by **25%**.
- 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 | GitHub | *Java, Springboot, ReactJS, p5.js, Docker, Azure, Netlify*   Jan 2023

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

Android Venue Booker | GitHub | *Java, Android Studio, Firebase*   Aug 2022

- Created a **CRUD Android application** with **Java and Android Studio** that allows 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.

University Course Website | GitHub | *Python, Flask, SQLite, BCrypt, Git, JS, Heroku*   Apr 2022

- Created a University course site with account, grading, and feedback systems in **HTML, CSS, and JS**.
- Implemented back-end authentication, authorization, and **SQL querying** with **Python, Flask, BCrypt, and SQLite**, resulting in a **100%** mark for the backend implementation.

Hack the Valley 5 Hackathon | DevPost, GitHub | *Python, OpenCV2, MediaPipe*   Oct 2021

- Developed a **Python** program that uses **computer vision** methods to allow users to move back from their camera while retaining control of presentations with gestures.
- 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: Java, Python, C, SQL (SQLite, MS SQL Server), Bash, JavaScript, HTML/CSS
Frameworks & Methodologies: Springboot, Azure, Flask, ReactJS, Firebase, Selenium, NoSQL, Nginx, JUnit, Agile
Developer Tools: Docker, Jenkins, Jira, Git (GitHub, Bitbucket), Terraform, Maven, Heroku, OAuth2, OpenId, VS Code, IntelliJ, Eclipse, Android Studio, Sublime