

Dmitriy Prokopchuk
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Summary of Qualifications

- Exceptional proficiency in Python reinforced over 2+ years of professional experience, coursework, hackathons, and projects.
- Strong full-stack, database, SQL, and CI/CD skills obtained in a Database and Web Applications course and a CD and DevOps course.
- Substantial web-development skills obtained through 6 months of web-scraping as a Research Assistant and working with front-end and full-stack projects.
- Outstanding communication skills developed as a Research Assistant and while mentoring 5 students as an editor for the school newspaper.
- Excellent commitment to learning and work ethic, evidenced by receiving the Lester B. Pearson Scholarship at the University of Toronto Scarborough and a 45/45 IB score.

Education

Candidate, Honours BSc Computer Science (Co-op) | CGPA: 4.0 **2021 – Present**
University of Toronto Scarborough (UTSC), Toronto, ON
Awards: Lester B. Pearson Scholarship - Merit-based | Full tuition

International Baccalaureate Diploma Program **2019 – 2021**
International School of Belgrade, Belgrade, Serbia | 45/45 Score | Valedictorian

Relevant Coursework

CSCB20: Introduction to Databases and Web Applications | UTSC **2022**

- Implemented a Flask, SQLAlchemy, and SQLite backend with an HTML, CSS, JS, and jQuery frontend to design course website with full account functionality.
- Designed DB schemas and implemented performant queries using Relational Algebra, SQLite.

Continuous Delivery & DevOps | University of Virginia ([Coursera](#)) **2022**

- Learned about common industry practices including: Continuous Integration and Delivery with GitHub Actions; Agile Development; Systems, Integration, and Unit Testing.
- Received a course mark of 95%.

CSCA48: Introduction to Computer Science II | UTSC **2022**

- Solved problems related to linked lists, BSTs, graphs, dynamic memory allocation, recursion, complexity in C.
- Leveraged data-structures and algorithms to create simple solutions to complex programming challenges.

Relevant Experience

Research Assistant | UofT, Ontario Institute for Studies in Education **Nov 2021 – present**

- Exercised independent judgement in creating performant web-scraping tools using Python, BS4, and Selenium, resulting in databases with 100,000s of data points for analysis.
- Formatted and created standalone csv databases allowing for streamlined analysis in NVivo.
- Completed tasks with efficacy and high attention to detail, resulting in contract renewal for new projects as well as a UTEA award valued at \$7500 for the summer of 2022.

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Editor for School Newspaper | Intl. School of Belgrade

Nov 2020 – May 2021

- Leveraged strong writing, communication, and feedback skills in a remote environment to improve the writing of 5 fluent students over a 6-month period.
- Reviewed progress remotely with supervisor on a consistent basis, resulting in clear and effective communication that reduced editing time by multiple days.

Coach for Mathematics Olympiad Team | Intl. School of Belgrade

Feb 2020 – Apr 2020

- Independently developed and presented lessons and problem sets with minimal guidance that supported an increase in test scores for all students.
- Simplified non-trivial olympiad-style questions to 8+ students through clear and effective communication methods, resulting in increased mathematical competency.

Relevant Projects

CSCB20 Course Website Redesign | [Website](#) | [GitHub](#)

Apr 2022

- Prototyped and Designed user-friendly, clean, and reactive UI in Figma, and received an A+ for a fully functional and aesthetically pleasing implementation in HTML, CSS, and JS.
- Implemented back-end authentication, authorization, and DB querying with Flask, BCrypt, SQLAlchemy, and SQLite, resulting in a 100% mark for the backend implementation.
- Collaborated remotely in a small team of 3, using GitHub for version control.
- Deployed final project to Heroku.

LightSearch | [GitHub](#) | [Sublime Package Control](#)

Jan 2022

- Developed a lightweight, standalone plugin for the Sublime Text 4 IDE that allows developers to query searches into a variety of common search engines from within Sublime, and automatically opens the standard system browser to return results.
- Utilized the Sublime Plugin API and officially deployed to Sublime Package Control.

Hack the Valley 5 Hackathon | [GitHub](#) | [Devpost](#)

Oct 2021

- Prioritized multiple tasks to learn and apply OpenCV2 and MediaPipe computer vision technologies within a timeframe of 38 hours.
- 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.

Personal Portfolio Website | [Website](#) | [GitHub](#)

Aug 2021

- Designed and developed a website using HTML, CSS, JS, and jQuery, resulting in an aesthetically pleasing single-page portfolio.
- Implemented responsive design and lightweight scroll/event-based user-friendly animations.

Data Scraping Project | [Github](#)

Oct 2019 – Jan 2020

- Communicated in a close team environment, supporting the completion of tasks ahead of deadlines.
- Used Python to create and format a comprehensive JSON database of 300,000 comments that exceeded the expectations of research partners.