Ron Varshavsky

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Education

University of Toronto   **Sep 2021 – Apr 2025**
Honours Bachelor of Science in Computer Science; GPA: 3.75/4.0; Dean's List Scholar   *Toronto, ON*
- **Relevant Courses:** Data Structures and Algorithm Analysis, Software Design, Probability with Computer Applications, Systems Programming, Computational Logic and Computer Hardware

Technical Skills

Languages: Python, Java, JavaScript, SQL, TypeScript, HTML/CSS, PHP, Bash
Frameworks/Tools: Django, PostgreSQL, Docker, GraphQL, DynamoDB, Express, NodeJS, React, Flask, Unix

Work Experience

Viral Nation   **May 2022 – Sep 2022**
AI Data Scientist Intern   *Toronto, ON*
- Built and shipped **5+ Django APIs** using **Docker**, following the microservice architecture to call AI prediction models.
- Migrated **20+** REST API endpoints to GraphQL methods, to improve speed and security.
- Built **3+** features for customer-facing products, working with proper feature version control methods and ensuring utmost development quality with an in-depth understanding of the overall product.
- Designed **2+** prototype **Postgres** database schemas, in combination with DynamoDB to ensure data storage efficiency.

Projects

Change in COVID-19 Misinformation Over Time 🗘 | *Python, Scrapy, Spyder*
- Analyzed trends in COVID-19 misinformation over time on Twitter using fuzzy string matching and negation detection.
- Utilized the Twitter API with a dataset of **10 000+ tweets** to perform data filtering and collecting efficiently.
- Created a dataset of over **50 common COVID-19 myths** through web-scraping and data aggregation.
- Reduced run-time by **2+ orders of magnitude** through data-type and algorithmic optimizations

FitPredict 🗘 | *Java*
- Built a fitness prediction program, developing with proper software design principles.
- Implemented **2+** fully functional features following fundamental object oriented design principles, such as **SOLID**.
- Reduced development time by **60%+** by implementing **5+** unique design patterns to improve code maintainability

ShopGreen 🗘 | *Python, JavaScript, ReactJS, Flask*
- Built a full-stack webapp using **ReactJS** and **Flask**, as part of a development team, to match users with local eco-friendly businesses as part of the UofTHacks 2022 Hackathon.
- Increased database speed by up to **50%** using **Google CloudSQL** to store **100+** business' information.
- Displayed **500+** unique data points, using Flask and React to dynamically sort data based on user queries.

FoodMood 🗘 | *ReactJS, NodeJS/Express, MongoDB, Python, Scrapy*
- Built a food matching webapp as part of a development team using the MERN tech stack.
- Used Python to aggregate a dataset of **1000+** individual data points efficiently through web scraping.
- Used NoSQL technologies, namely **MongoDB** to ensure a swift and efficient data storage system.
- Utilized NodeJS to efficiently pick, and display foods related to users' interests.

Leadership / Extracurricular

Toastmasters International   **Oct 2016 – Sep 2021**
Club Officer, Member   *Vaughan, ON*
- Built **public speaking** and **leadership skills** alongside peers through a youth leadership program.
- Acted as a mentor for younger students, ensuring a positive and safe learning environment

Competitive Tap Dancer
- Placed onto Team Canada for the 2020 IDO dance competition, in tap dance.
- Performed throughout Ontario at festivals such as the CNE and at Nathan Phillips Square.