

## Demid Zykov

[demid.zykov@mail.utoronto.ca](mailto:demid.zykov@mail.utoronto.ca) | 289-888-1708

[zykov.xyz](http://zykov.xyz) | [github.com/DZykov](https://github.com/DZykov) | [linkedin.com/demid-zykov](https://linkedin.com/demid-zykov)

---

### PORTFOLIO PROJECTS

**Chrono** | *Python, Javascript, Dart, Flask, Node.js, Flutter, PostgreSQL, DigitalOcean/AWS* 2023

- Coded and designed a publishing [platform](#) and [website](#).
- Programmed a scalable and secure API using *Flask* that supports user sign-up, login, upload, edit, delete, comment on posts, like, etc.
- Engineered a platform that integrates multimedia and word processor functions using *Flutter*.
- Encrypted user logins in a custom database schema to ensure security with *PostgreSQL*.
- Implemented metrics dashboard for articles that provided real-time analytics on reads, shares, and comments.
- Deployed for production using *DigitalOcean/AWS*.

**IRC Web Chat** | *Javascript, Node.js, HTML, CSS, SQL* 2023

- Architected a [text-based web chat system](#) for instant messaging in real time.
- Programmed end-to-end encryption for private and public chats using *Javascript* and *SQL*.
- Coded a secure login system with encryption algorithms and hashing techniques.

**circles.io** | *Javascript, Node.js, HTML, CSS* 2023

- Conceptualised and programmed original [game](#) mechanics including real-time multiplayer.
- Architected a server creation and joining system and multithreading techniques.
- Engineered real-time gaming mechanics.

**Life Evolution** | *Java, AWT, Swing* 2022

- Designed and implemented a [machine learning model](#) using Evolution algorithm with Java to optimise decision-making in a complex environment.
- Coded a visual simulation using *Java AWT*.
- Implemented live monitoring and metrics tools.

**PyShell** | *Python* 2022

- Engineered an [offline voice assistant](#) with *Python* and *AI* models.
- Developed a custom command system that enables to automate repetitive tasks or comprehensive functionality.
- Architected a custom shell that incorporates all relevant commands.
- Operated in two languages: English and Russian.

### EDUCATION

**University Of Toronto Mississauga** 2018-2023

Honours Bachelor of Science: Computer Science, Philosophy, and Mathematics

### VOLUNTEER EXPERIENCE

**Mentor Collective** 2018-2020

Top alumni and student leaders have volunteered to prepare new students for success.

- Created a sense of community and belonging for new students and helped them succeed academically and socially.
- Integrated 2 international students into Canadian society and helped them to build valuable connections.

### SKILLS & INTERESTS

**Technical Skills:** User Interface & User Experience Design, Accessible Web Development & Design, Algorithms & Data Structure Designs, Database Management, Optimization, APIs, Kernel Management

**Languages & Tools:** Python, Java, Javascript C/C++, Dart, Bash, Flask, Django, Node.js, Spring, Flutter, React.js

**Soft Skills:** Project/Operations Management, Flexibility, Decision Making, Creative Thinking, Strategic Planning, Multi-tasking, Adaptability, Research & Strategy, Problem Solving, Responsibility, Teamwork, Networking \

**Other Skills:** Nginx, Apache, Docker, PostgreSQL, UNIX, SEO, Google Cloud, Digital Ocean, Agile

**Interests:** Game Development & Design, Story Telling, Swimming, Boxing

**Languages:** English (fluent), Russian (fluent), Bashkir (proficient)