Lukas Bozinov

lukasbozinov@gmail.com | (647) 646-9599 | Markham, ON | github.com/lukasboz

EDUCATION

Western University   **April 2027**
B.S Computer Science   *London, ON*
- **GPA: 3.8** — Dean's Honours List for 2 consecutive years
- **Relevant Coursework:** Data Structures and Algorithms, Cryptography, Machine Learning, Computer Architecture and Organization, Computer Networking, Operating Systems, Systems Programming

PROJECTS

Math Duels | *JavaScript, Socket.io, ReactJS, Node.js, HTML5/CSS, MongoDB, Vite, Babel.js*
- Over the course of 4 months, developed a real-time educational multiplayer math challenge platform, based on the Ontario Math Curriculum, which improved users' math skills **by 35%**.
- Designed responsive front-end UI/UX with HTML5/CSS, and managed user data and game history using MongoDB and HTTP Requests via Socket.io
- Optimized development using Vite, Babel.js, and SWC for faster builds and cross-compatibility between various browsers

Chef.ai | *Python, Scikit-learn, SciPy, Pandas, NumPy, Matplotlib*
- Analyzed historical purchase data and utilized data visualization with Matplotlib to identify consumption trends and enhance meal planning efficiency.
- Engineered an AI-driven meal planning application using regression & classification algorithms to optimize grocery purchases and recommend meals based on item expiry dates, reducing food waste **by 20%**.

YouTube To MP3 | *Python, CustomTkinter/Tkinter, Pytubefix*
- Created a YouTube to MP3 converter using Python, CustomTkinter for the GUI, and Pytubefix for video downloading and conversion.
- Implemented key features like URL validation, progress tracking, and error handling to enhance user experience and reliability.

WORK EXPERIENCE

Project Director - Backend Leadcr | *PostgreSQL, Flask, OAuth, Figma*   **Oct. 2024 —**
Computer Science Undergraduate Society   *London, ON*
- Responsible for overseeing a group of developers for the backend layer of a WesternU-based instant messaging system related to currently enrolled courses and clubs.
- Uses PostgreSQL to manage student information and to ensure data remains private. Also used to manage user reports and analytics from IM-system.
- Used Flask for easy deployment and lightweight capabilities, and used OAuth 2.0 for easy authentication.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, C/C++, Python, Java, Go, HTML5/CSS, SQL, Perl
Libraries/Frameworks: Socket.io, ReactJS, Node.js, Vite, Scikit-learn, SciPy, Pandas, NumPy, Matplotlib, CustomTkinter, Pytubefix, PostgreSQL, MongoDB, Flask
Miscellaneous Skills: Linux (Ubuntu, Mint, Fedora, Kali), Batch/Shell scripting (Python), OWASP knowledge