

# Martin Ivanov

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## EDUCATION

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**McMaster University** | Bachelor of Engineering in Software Engineering Co-Op September 2020 – May 2024

- GPA: 3.7/4.0
- Relevant courses: Object-Oriented Programming, Digital Systems & Interfacing, Data Structures & Algorithms

## WORK EXPERIENCE

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**Software Developer Intern** September 2021 – Present

Peernet.co | Toronto, ON (Remote)

- Developed scalable features for a student social collaboration platform with 2100+ users across 3 universities
- Designed, built, and tested web components using React and Redux in a full-stack environment
- Constructed and tested RESTful APIs with Express/Node to send and receive data from a MongoDB database
- Built a convenient GPA calculator with automated course data entry that was used by over 20% of active users
- Developed a homework help feature for students to ask questions in 9000+ unique course forums
- Deployed novel features and updates to the site in weekly Agile sprints as part of a small start-up team

**Crew Member** December 2019 – November 2020

McDonald's Canada | Guelph, ON

- Maintained efficiency and communicated effectively in a fast-paced and high-stress environment
- Mastered new skills quickly and mentored newly hired coworkers in learning said skills

## PROJECTS

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**Eatsy — Meal Planning App** | React, Express, Node.js, MongoDB

- Developed a full-stack web application for planning meal portions to help users stretch grocery budgets
- Built a React front-end with Google Calendar style functionality, prioritizing a smooth user experience
- Implemented a full user authentication system using JSON Web Tokens and bcrypt for encryption
- Constructed a REST API using Express and Node to create, read, update, and delete data from MongoDB

**JobBase — Job Application Organiser** | Java, MySQL

- Developed a desktop program to map job search progress by tracking and visualising job application data
- Constructed a user-friendly Java Swing GUI to allow the user to intuitively create, update, and delete records
- Created and updated a locally hosted MySQL database to store records of the user's job applications
- Designed algorithms to manipulate data and generate heatmaps, Sankey diagrams, and pie charts

**Driving Test Availability Finder** | Python

- Implemented a Selenium browser to automate the process of checking for new driving test availabilities
- Set up a Python SMTP system to automatically email the user as soon as a new appointment opened up
- Saved 5+ months of waiting time to get a G2 driving license by leveraging this solution

**Blackjack Simulator** | Python

- Utilised object-oriented programming principles to handle data and control game loop flow
- Developed a caching system for storing generated assets to improve processing performance
- Implemented error checking and unit testing to account for edge cases in debugging complex logic

## SKILLS

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**Languages & Libraries/Frameworks:** JavaScript, HTML/CSS, Python, Java, C, React, Express, Node.js

**Tools:** Git, Linux, Bash, MongoDB, SQL, Heroku, Netlify, Jira, Trello, VS Code, IntelliJ, NetBeans, Postman