

Martin Ivanov

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EDUCATION

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

RELEVANT WORK EXPERIENCE

Software Developer Intern September 2021 – Present

Peernet.co | Toronto, ON (Remote)

- Proposed and developed scalable features for a student social collaboration platform with 2100+ users
- 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 tool that allows users to calculate their GPA in under 30 seconds by automating course data entry
- Developed a homework help feature for students to get help with 9000+ courses across several universities
- Deployed new features and updates to the site in weekly Agile sprints as part of a small start-up team

PROJECTS

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 frontend with Google Calendar style functionality using React, 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.js to create, read, update, and delete stored meals and users

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

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