

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

WORK EXPERIENCE

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, Redux, and React Query in a full-stack environment
- Constructed RESTful APIs with Express/Node and used Postman to perform 100+ API tests during development
- 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 25+ novel 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 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
- Reduced monthly grocery spending by over 30% after consistently using the application for one month

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
- Algorithmically consolidated data from 200+ records to 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
- Reduced waiting time to get a driving license by 70% through automatically running the script 75+ times a day

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 by 25%
- Implemented 40+ unit tests to account for errors and 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