Hasan Sattarov

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Education

University of Waterloo — **Sept 2020 – Apr 2025**
Bachelor of Computational Mathematics, Minor in Computing, Honours Co-op — *Waterloo, ON*

- **Relevant Coursework:** Elementary Algorithm Design and Data Abstraction, Data Types and Structures, Object-Oriented Programming, Introduction to Computers and Computer Systems, Applied Cryptography

Technical Skills

Languages: Java, Python, C, C++, C#, PHP, Go, JavaScript, MySQL, HTML/CSS
Technologies/Frameworks: Spring Boot, React, AWS, jQuery, Flutter, Jenkins, Node, MariaDB, Django, AJAX
Tools: Docker, GCP, PostgreSQL, Git, pandas, Linux, Jupyter Notebook, Apache, IntelliJ, Jira, Confluence

Experience

Software Engineer — **Sept 2024 – Dec 2024**
Sawback Technologies — *Calgary, AB*

- Processed and synchronized high-frequency methane and GPS data (10Hz) using **Python** for downsampling and interpolation, enhancing dataset accuracy and enabling analysis across 5+ projects
- Developed a data processing pipeline for magnetic anomaly analysis, automating spreadsheet management for 30+ surveys across four regions in Pennsylvania in collaboration with geophysicists

Full Stack Developer — **May 2023 – Aug 2023**
Studica Limited — *Mississauga, ON*

- Improved mobile responsiveness by refining **CSS** and using responsive design principles, reducing mobile traffic by 40%
- Developed a script in **C++** to capture controller inputs on an active learning robot, leading to a 30% reduction in input delay
- Modernized the application by using **React** and **Node.js**, leading to a 20% improvement in loading times
- Integrated **RESTful APIs** to efficiently handle data retrieval and updates, resulting in a 15% reduction in data retrieval time

Software Engineer — **Sept 2022 – Dec 2022**
PointClickCare — *Mississauga, ON*

- Implemented and integrated end-to-end API testing using **Java**, resulting in a 30% reduction in regression testing time
- Utilized **Spring Boot** to reduce error rates of API requests by 20% through validation of APIs using Postman
- Optimized team collaboration in Agile workflows using Confluence and Jira, increasing productivity by 20%

Full Stack Developer — **Jan 2022 – Apr 2022**
Studica Limited — *Mississauga, ON*

- Spearheaded the development of a full-stack platform using **HTML, CSS, JavaScript**, and **PHP** on a Raspberry Pi server, creating a learning environment for 10,000+ schools across Ontario
- Expedited data display speed by 30% by integrating **PHP** and **AJAX** requests, enabling effective communication between the user interface and back end

Junior Web Developer — **May 2021 – Aug 2021**
Dacture — *Toronto, ON*

- Implemented a complete redesign of the company's website using **HTML/CSS**, increasing web traffic by 20%
- Managed a team of four programmers to create company website designs using **Figma**

Project Team Member — **May 2021 – Aug 2021**
Microsoft — *Toronto, ON*

- Collaborated closely with Microsoft engineers to develop skills in website design and digital marketing, gaining hands-on experience in front-end development, and UI/UX principles

Projects

Custom Login System — **GitHub**

- Built a custom Login System using **MySQLi** and **HTML/CSS**
- Integrated **PHP** for backend form validation, error handling, and logic processing, increasing system reliability and reducing user-related issues by 25%
- Enhanced security by implementing password hashing and input verification, lowering security vulnerability risks by over 50%