Joshua Komonen

(647) 225-0101 | jkomonen@uoguelph.ca | linkedin.com/in/joshuakomonen | github.com/jkomonen | joshkomonen.com

EDUCATION

University of Guelph   September 2020 - April 2025
Bachelor's, Software Engineering (Co-op)   *GPA: 3.9/4.0*

TECHNICAL SKILLS

Languages: Python, Javascript, TypeScript, SQL, Java, C, C++, C#, Objective C, Perl, Ruby, Swift, R, HTML, CSS
Libraries/Frameworks: React, Angular, Vue, Express, .NET, Jenkins, Jest, Spring, Hibernate, jQuery, Cypress, Mocha, Bootstrap, Node, TensorFlow, PyTorch, Selenium, MUI, Ajax, jQuery, NumPy, Pandas, Pyramid, Django, Flask
Development Tools: Git, GitHub, Jira, Confluence, AWS, Docker, Kubernetes, CI/CD, GCP, Terraform, Postman
Databases: Oracle, MySQL, Elasticsearch, Redis, PostgreSQL, MongoDB, MariaDB, Cassandra, SQL, noSQL

WORK EXPERIENCE

Teaching Assistant (Object Oriented Programming)   September 2023 - Present
University of Guelph   *Guelph, ON*
- Instructing students in fundamental programming principles, such as abstraction, inheritance, encapsulation, polymorphism, and object-oriented design using Linux-based development environments
- Single-handedly developed a Python script to automate the grading process of assignments, significantly reducing manual workload, resulting in a 70% reduction in grading time
- Facilitating labs, marking assignments, and answering student questions in a class of 350+ students

Software Engineer Co-op   May 2023 - August 2023
NCR Corporation   *Waterloo, ON*
- Improved client account processing in multiple NCR applications for faster and more efficient money transfers, requests, and transactions using React, TypeScript, and Node.js
- Actively participated in the recruitment process by reviewing resumes and interviewing potential co-op candidates

Software Engineer Co-op   September 2022 - December 2022
ProNavigator   *Kitchener, ON*
- Employed React, JavaScript, and Node.js to accelerate file navigation within the Sage app, leading to a 15% reduction in navigation time for insurance companies handling extensive document repositories
- Implemented Python to architect and develop robust RESTful APIs on the backend, enhancing system functionality and enabling seamless data exchange for web applications

Full Stack Developer Co-op   May 2022 - August 2022
TAMVOES Health Inc.   *Waterloo, ON*
- Developed RESTful APIs using Python, facilitating real-time access and modification of clients' healthcare data
- Designed and implemented SQL database schemas, optimizing query performance and data storage efficiency
- Used React and JavaScript to craft sleek, intuitive UI designs, elevating user engagement and aesthetic experience

Programming Tutor   Jan 2020 - Present
University of Guelph Unoffical   *Guelph, ON*
- Designing structured lesson plans to ensure organization and workflow efficiency, while also monitoring students' academic performance to identify and address areas needing improvement

PERSONAL PROJECTS (VIEWABLE AT HTTPS://JOSHKOMONEN.COM)

Cryptocurrency Portfolio
https://cryptocurrency-portfolio-tracker.onrender.com
- MERN stack web app to track user's cryptocurrencies, prices, and quantities, featuring CRUD functionality, and demonstrated proficiency in manipulating databases and creating REST APIs for cluster data operations

Social Strangers
https://social-strangers.web.app
- Real-time web app for text-based communication with strangers using Javascript, React, and Firebase. Implemented a profanity API and Google Authentication to enforce user bans for inappropriate language