

Joshua Komonen

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EDUCATION

University of Guelph

Bachelor's, Software Engineering (Co-op)

September 2020 - April 2025

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)

University of Guelph

September 2023 - Present

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

NCR Corporation

May 2023 - August 2023

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

ProNavigator

September 2022 - December 2022

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

TAMVOES Health Inc.

May 2022 - August 2022

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

University of Guelph Unofficial

Jan 2020 - Present

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](https://joshkomonen.com))

Cryptocurrency Portfolio Tracker

<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