

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, Docker, Kubernetes, AWS, GCP, Terraform, CI/CD, Postman

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
- 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

Mobile Developer

NCR Corporation

May 2023 - August 2023

Waterloo, ON

- Engaged in enhancing multiple NCR applications to streamline client account processing
- Achieved faster and more efficient money transfers, requests, and transactions using React Native
- Actively participated in the recruitment process by reviewing resumes and interviewing potential co-op candidates

Software Developer

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

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

Private Programming Tutor

University of Guelph Unofficial

Jan 2020 - Present

Guelph, ON

- Designing structured lesson plans to ensure organization and workflow efficiency
- Monitoring students' academic performance to identify and address areas needing improvement
- Utilized interactive coding exercises and real-world project examples to enhance understanding, stimulate interest, and encourage hands-on application of programming concepts

PERSONAL PROJECTS (VIEWABLE AT [HTTPS://JOSHKOMONEN.COM](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