

# Joshua Komonen

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## EDUCATION

### University of Guelph

*Bachelor's, Software Engineering (Co-op)*

September 2020 - April 2025

GPA: 3.7

## 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 300+ 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