

# Elton Kok

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## LINKS

in [linkedin.com/in/eltonkok](https://www.linkedin.com/in/eltonkok)  
📄 [github.com/EltonK888](https://github.com/EltonK888)  
🔗 [eltonk888.github.io](https://eltonk888.github.io)

## EDUCATION

### UNIVERSITY OF TORONTO

HBSc IN BIOCHEMISTRY & HUMAN BIOLOGY  
2014 – 2019 | Toronto, ON  
GPA: 3.90 / 4.00  
• Dean's List (2014 – 2019) – Achieved a GPA of 3.50 or higher in most recent year of full-time study

## COURSEWORK

- Data Structures
- Databases and Web Technologies
- Systems Programming
- Object Oriented Programming
- Introduction to Computer Science
- Linear Algebra

## SKILLS

### LANGUAGES

- Python
- C
- Java
- JavaScript
- SQL
- HTML
- CSS
- MATLAB

### TOOLS/Frameworks

- Flask
- JQuery
- Git
- SVN
- Github
- Unix/BASH
- Bootstrap
- IntelliJ
- Pycharm
- Vim

## EXPERIENCE

### UNIVERSITY OF TORONTO | TEACHING ASSISTANT

September 2018 – May 2019 | Toronto, ON

- Co-lectured to a class of approximately 150 students to teach computer science fundamentals using Python
- Hosted office hours to mentored students one on one for assignments and exams resulting in overall improvement in their grades
- Communicated with a team of TAs in meetings to provide feedback to the course instructor and help improve overall course content delivery

### UNIVERSITY OF TORONTO | RESEARCH ASSISTANT

May 2018 – May 2019 | Toronto, ON

- Used the Spinning Disk Confocal Microscope to acquire z-stacks of up to 25 cell images per day with great efficiency to assist with graduate student project data collection
- Performed image processing and analysis using Volocity to quantify osteoclasts nuclei, significantly reducing time to publication
- Assisted graduate student project on examining the effects of cannabis on osteoclasts by fixing and staining cells using TRAP stain

### SANOFI PASTEUR | RESEARCH AND DEVELOPMENT CO-OP

May 2017 – May 2018 | Toronto, ON

- Utilized Unix/BASH scripts and commands to set up the Geneious software used by the R&D department for bioinformatics analysis
- Developed multiple analytical assays using molecular biology techniques such as DNA extractions and PCR that would be used to support vaccine development
- Used critical thinking and research skills to interpret data and determine next steps in the experiment

## PROJECTS

### SIMPLE C SEARCH ENGINE

📄 [github.com/eltonk888/Simple\\_C\\_Search\\_Engine](https://github.com/eltonk888/Simple_C_Search_Engine)

- A CLI tool that looks for a given word in a directory containing text files and outputs in descending order, the files with the highest frequency of the given word
- Implemented in C using forks to create a process for each subdirectory and pipes for interprocess communication between the child and parent processes

### CSCB20 SITE REDESIGN

📄 [github.com/eltonk888/CSCB20\\_Redesign](https://github.com/eltonk888/CSCB20_Redesign)

- A project to redesign and add additional functionality to the old CSCB20 website
- Additional functionality includes logging in with different user types and submitting remark requests/instructor feedback
- Used Flask and SQLite for the back end and HTML, CSS, JavaScript for the front end

### WEB SCRAPING WITH PYTHON

📄 [github.com/eltonk888/web\\_scraping](https://github.com/eltonk888/web_scraping)

- Scripts created to scrape lecture content off U of T course websites
- Implemented in Python using libraries such as BeautifulSoup and FPDF to look for files in HTML code and save to a pdf