



Skills: React, Django, Angular, Spring, MySQL, MongoDB, Node.js, Git, Mockito, Linux Languages: Python, Java, Java/Typescript, Kotlin, Swift, HTML / CSS, C ++

# **WORK EXPERIENCE**

# Software Developer | Cyclica

September – December 2020

- Created new features from end to end for a drug development platform by building functional React components and leveraging Django to develop RESTful API's and PostgreSQL query expressions
- Built a major feature that allows users to analyze the abundance of 30 000+ proteins in major organs, tissues and cells by implementing a dynamically colour coded anatomical diagram and graph
- Optimized performance of protein details API by 30% through refactoring database queries
- Designed UI and created vector graphics for protein detail pages centered around user needs of applied scientists

## Software Engineer | PointClickCare

January 2020 — May 2020

- Implemented and tested backend of nutrition management and core web application used by hundreds of hospitals
- Developed audit framework and instrumented logging events using RESTful API's, jQuery, Spring and Mockito to increase logging coverage by 12%
- Reduced team regression period by 5 days by developing page objects and end to end tests with **TestNG** and **Selenium**

## Full Stack Developer | Royal Bank of Canada

May — August 2019

- Created 30% of UI features on an internal web application used by hundreds of mortgage specialists according to strict design specifications and added dynamic functionality to widgets with **Angular, Kotlin** and **Swift**
- Using Spring, developed API's, wrote and retrieved all user preferences with MongoDB and implemented business logic
- Presented new features and project updates to over 100 stakeholders biweekly

#### **PROJECTS**

# Research Assistant [7] Engineering and Optometry/Vision Science Lab

September 2019 — Present

- Wrote a publication for SPIE Optics+Photonics journal (spie.org/Publications/Proceedings/Paper/10.1117/12.2566771)
- Created a psychophysics eye experiment software to be used in a clinical trial by the Singapore Eye Research Institute to predict early stage glaucoma in patients by measuring hyperacuity
- With PsychoPy/Python, developed an algorithm using the adaptive staircase procedure, adjusting the next test stimulus according to past responses and write the raw data in a comprehensible format for the experiment observer

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February 2020

- Created a bracelet for patients at risk of a medical emergency to be scanned by paramedics and first responders to view and access crucial medical information (https://devpost.com/software/mediband)
- Embedded an **NFC card** in a bracelet which can be tapped to display patient's medical history, allergies, medications and other vital information on the users device
- Implemented the entire Angular web application UI and MongoDB Atlas integration

#### **EDUCATION**

University of Waterloo

Sept 2018 – May 2023 (Expected)

Candidate for BASc (Biomedical Engineering) with an Option in Computer Science | CGPA 88.44 (3.81)

Relevant Courses: Software Design and Architecture, Data Structures & Algorithms, Image Processing, Linear Algebra