Brayden Klemens

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Education

Honours Bachelor of Computing, Computer Science
University of Guelph | GPA: 3.7/4.0 (85%)   2017 - 2022

- **Notable Courses:** Discrete Mathematics, Data Structures, Algorithms, Object Oriented Programming, Operating Systems, Legacy Systems, Computer Networks, Software System Development, Software Engineering ,Cloud Computing, Mobile Development, Compilers

Technical Skills

Languages
- Java, Python, Dart, C#, C, Javascript, Typescript, SQL, HTML, CSS

Frameworks
- **Flutter:** Firebase Authentication, Cloud Firestore, Provider, Local Notifications | **React Native:** Native Base, React Navigation, Redux, Expo | **ReactJS:** Node.js | **AWS:** s3 Storage, Lambda | **Azure & GCP:** Blob Storage, VM creation | **AngularJS:** Angular Material

Tools
- VS Code, Visual Studio, IntelliJ, Xcode, Android Studio
- Github, Trello, Jira, Confluence, Bitbucket, Docker

Work Experience

Mobile Developer
University of Guelph | Remote | Guelph, ON   Jul 2022 - Oct 2022

- Developed a cross platform Flutter application, to be used as a survey tool in research collection
- Dynamically updated user data using the Cloud Firestore service
- Designed and created wireframe and control flow for all states of the application
- Features: create/delete accounts, complete surveys, history log, notification services

Software Developer
University of Moncton | Remote | Moncton, NB   May 2022 - Jun 2022

- Architected a data cleaning pipeline for an ergonomic research study
- Developed python scripts to clean bad data from a motion captured csv data set
- Developed python scripts to calculate an ergonomic rating for arms, neck, and trunk, using angle data over time

Software Developer Co-op
Brock Solutions | Kitchener, ON   Jan 2021 - Apr 2021

- Developed and improved manufacturing execution systems for R.J. Reynolds
- Traced through code to delete unused/outdated functions and rewrote them
- Updated old data, and custom object tables in SQL

Machine Learning Developer Co-op
Thermal Camera Project, University of Guelph | Guelph, ON   May 2020 - Aug 2020

- Architected a machine learning pipeline, which uses thermal imaging data to detect COVID-19
- Developed a facial detection script using a human face data set and a 64 nodal point mesh
- Used adaptive thresholding to calculate average and mean pixel values in regions of thermal faces to determine body temperature and breath rate

Software Developer Co-op
Camis Inc | Guelph, ON   Sep 2019 - Dec 2019

- Built front end UI systems and user flows for various Ontario Parks reservations systems
- Implemented front-end bug fixes and added style changes for the client website
- Used Jira to manage pull requests and complete code reviews

Mobile Developer Co-op
Perpetual Motion Sports & Entertainment | Guelph, ON   May 2019 - Aug 2019

- Developed a cross platform application using React Native, populated dynamically using website API data
- Tested IOS on Test Flight and generated an APK to test on Android
- Features: scheduling, league standings, team registration, score reporting, and location routing