

# ANAND ISSAC

Management Engineering Student, University of Waterloo

📄 <https://github.com/Anand-Issac> | 📍 <https://anand-issac.github.io/> | ✉ [azissac@uwaterloo.ca](mailto:azissac@uwaterloo.ca)

## SKILLS

Languages: Java, Python, JavaScript, R, SQL, HTML, CSS

Tools & Technologies: Git, Bash, React, Node, Express, Firebase, Postman, Bootstrap

## EXPERIENCE

Software Developer | BlackBerry QNX – Audio Team

January 2020 – April 2020

- Spearheaded design change for audio sample-rate process; proposed for application sample rate to be closest supported rate opposed to maximum supported rate – [saves up to 2x memory usage](#)
- Developed 2 Python scripts that validated audio management processes such as priority ducking and 5 scripts for core audio features such as channel mapping, sampling rates, and volume ramping

Software Engineering Intern | Ontario Public Service

May 2020 – August 2020

- Developed Python framework to automate file validation process of over [300,000 records](#) in less than 8 seconds which [saved 5 days](#) in the [60-day build cycle](#)
- Developed Java cheque-printing utility for internal use which leads the way to cut reliance on third party software that costs the organization around [\\$30,000 per year](#)
- Optimized and fixed Java DevOps tool which automated testing for 5 REST and SOAP web services so that it can dynamically test and output HTML reports in under 12 seconds

## PROJECTS

📄 StuTours (Hack the North 2019) | Node, Angular, Express, HTML, CSS

- Developed a web-app to assist incoming university students book tours, receive an optimized route, and explore news articles about their favorite universities
- Componentized web app using Angular and leveraged Node/ Express for all server-side processes such as communicating with Accenture, Google Maps, and Bing Web Search REST APIs

📄 convoBuddy (QHacks 2019) | Swift, Google Cloud Vision, Firebase, Raspberry Pi

- Developed an iOS feedback training device by using a Raspberry Pi to input video streams, which was fed into Google Cloud Vision API to identify emotional traits along with scoring eye contact
- Won “Best Use of Google’s Cloud API Award” at QHacks

## EDUCATION

University of Waterloo | Bachelor of Applied Science, Management Engineering

September 2018 – Present

- Relevant courses: MSCI 240 – Algorithms and Data Structures, MSCI 251 – Probability and Statistics 1, MATH 115 – Linear Algebra for Engineering, MSCI 271 – Advanced Calculus & Numerical Methods