

# 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 Suite, Postman, Bootstrap

## EXPERIENCE

Software Developer | BlackBerry QNX – Audio Team

January 2020 – April 2020

- Spearheaded design change for audio sample-rate process; led change 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 2019 – August 2019

- Developed Python framework to automate file validation process of over [300,000 records](#) in less than 8 seconds which [saves 5 days](#) and [\\$4500](#) in the two-month 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 Java DevOps tool to automate testing for 5 essential REST and SOAP web services so that it can dynamically test and output HTML reports in under 12 seconds

## PROJECTS

📄 cheapCart | React, Firebase Auth and Realtime Database, HTML, CSS

- Developed a web-app to assist shoppers purchase items without having to scroll through extensive lists on eBay and add it to their own personal shopping cart
- Leveraged React to componentize and modify state of app; all auth is done through Firebase Auth, all data is securely stored in a Firebase RTD, and eBay Finding API is used for product info

📄 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 based on 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

📄 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 is fed into Google Cloud Vision API to identify emotional traits along with scoring eye contact

## EDUCATION

University of Waterloo | Bachelor of Applied Science, Management Engineering

September 2018 – Present

- Relevant courses: Algorithms and Data Structures, Databases and Software Design, Probability and Statistics 1, Linear Algebra for Engineering, Advanced Calculus & Numerical Methods