# NEWTON TRAN

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## TECHNICAL SUMMARY

- Java, Javascript, C, C++, Python, Scheme, Bash, R
- Flume, Tensorflow, Node.js, React-Native, Jenkins, Docker, AWS, Firebase, Codeship

## WORK EXPERIENCE

**Software Engineering Intern**                    Google | Seoul, South Korea | May 2018 – Aug 2018

- Worked with the Google Finance search team leveraging statistical models and custom metrics to measure overall health of daily aggregated finance data from third party providers
- Developed a module to detect anomalies in time series data **with 100% precision** and **96.7% recall** on a sample consisting of the top 1000 most searched NASDAQ stocks and 30 anomaly examples
- Implemented a gatekeeper mechanism that blocks finance data from flowing to production when serious data quality issues are found

**Machine Learning Developer Intern**        Sensibill Inc | Toronto, Canada | Sept 2017 – Dec 2017

- Collaborated with industry experts to migrate machine learning pipeline from Torch to Tensorflow
- Designed and implemented new training, testing, and production processes
- Trained LSTM models to extract key information from character sequences
- Experimented with neural network structures and **improved classification model accuracy by 6.8%**
- Developed metrics to measure end to end performance of various machine learning applications

**QA Automation Developer Intern**            Sensibill Inc | Toronto, Canada | Jan 2017 – Apr 2017

- Designed and implemented tests for both iOS and Android platforms, which sent reports and screenshots to relevant development teams
- Automated tests **caught a critical bug** shortly before shipment, enabling a hot-fix prior to the deadline

## PROJECTS

**MockBase** | devpost.com/software/mockbase                              Hack the North, 2017

- Built with React-Native, Firebase, and Coinbase API
- Simulated cryptocurrency game that allows users to practice trading risk-free
- Fetches real time price data for Bitcoin, Ethereum and Litecoin

**GoFindMe** | devpost.com/software/gofindme            WearHacks Kitchener-Waterloo, 2017

- Built with Estimote, Node.js, Mongo, and Java
- Report lost items attached to Estimote beacons and set rewards for successful recovery of said items

## EDUCATION

Candidate for **Bachelor of Computer Science** at **University of Waterloo**            Class of 2019

- "Excellent" academic standing, cumulative average of 80% or greater