

# Andrew Novac

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## education

### University of Toronto

Sept. 2014 to Dec. 2019

- Honours Bachelors of Science - specialist in Computer Science, minor in Mathematics
- Coursework in: Operating Systems; Databases; Algorithms; Applications of Computer Science; Programming Languages; Computer Architecture; Programming organization; Web Programming; Mathematical Modelling; Robotics
- Focus on Artificial Intelligence, Machine Learning, and Neural Networks

## employment

### Cast Software

May 2018 to Aug. 2019

#### Research Developer

- Restricted Resource.h content IDs by 90%, then set up a greedy algorithm to go through viable program paths and log actions taken by identifying changes through OpenCV and numpy
- Using a RasPi and a USB hub, allowed on-site representatives to always have the latest images and documentation in a set of SSDs - ready and constantly updating through a local TCP exchange
- Tracked user information using Revulytics and logged information onto a csv file, allowing identification of critical application areas and possible user combinations

## projects

### ERA

Android application that sends user health and location information to contact emergency services, using OAuth and API Medic

### Omnify

A python collaboration page using the Spotify API to parse your data and return profile statistics, boosted by the merged Echo Nest API

### Marvin Chatbot

Web client that can hold basic conversation including arithmetic response type when connected to server, implementing profiling and server porting

### Facial Recognition

Using various machine learning methods such as linear regression and gradient descent, created a visual program that detects and follows faces in a video file

## languages

C · C# · C++ · Java · React · Python · MongoDB · Javascript · and more...

## experiences

**Version Control:** git and svn control systems

**Agile Ceremonies:** stand up, scrum, waterfall, and more

**Volunteer Note-taker:** helped the Accessibility centre at UofT

**International Baccalaureate:** two-year high school education program