

# NATHAN BROWN

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## SUMMARY

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Passionate about creating interesting applications, writing elegant code, and learning anything I can. After graduation with Bachelor's Degree in Computer Science, I have explored new forms of technology from microprocessor's to cloud computing platforms, and everything in between, and experimented with how they can be used.

## EDUCATION

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2015

Lakehead University, Ontario, Canada

B.S., Computer Science

Academic Honors

## PERSONAL PROJECTS

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### Arduino Midi Player

- Arduino Microcontroller equipped with multiple buzzers and network adapter
- Go application to connect to Arduino's server, then parse and stream the notes of the midi file

### SPaDeS SA2B Tools

- Set of tools to modify memory of the game "Sonic Adventure 2: Battle" written in Go
- Read Game Character information each frame and save to a database, then inject back into the game a a later time to create a copy or "ghost" of the player, allowing to view a replay of gameplay.
- Share "ghost" data with other players online through a server written in node.js, allowing other players to race against another player's "ghost", with a real-time feature to simulate multiplayer.

### Twitch Chat Bot / Poll Overlay System

- Twitch Chat bot written in Node.js that monitors chat message while updating a website.
- Users can create an overlay, that allows the members of chat to vote, and updates in real-time.

### Xi:Bound

- Android game developed using Unity (C#)

### PicHunt

- Android app for sharing pictures, and using them to create a "Scavenger Hunt"
- Upload Pictures, and show all pictures from other users taken near your location.

## SKILLS

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Experience deploying web applications to cloud computing services such as Amazon's AWS and Heroku.

Well-versed using Relational and NoSQL DBMSs, experienced with MongoDB, DynamoDB, SQLite.

Fluent using a variety of popular programming languages: C#, Java, Go, Node.js, Javascript.

Used paradigms, frameworks and languages: CSS, HTML5, jQuery, R, Python, Angular, JWT, RESTful API's.

Practical knowledge of security in applications, such as creating user login systems and encrypting data.