# Michael Overton Brown

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## Education

September 2007 - May 2012
**McGill University - Montreal, Quebec, Canada**
*B.Sc. (Honors) Mathematics. Minor computer science.*

Primary focus on algebraic topology. Wrote research paper titled "Nielsen Root Theory of N-Valued Maps."

## Experience

March 2021 - Present
**Roundnotes, Inc.** *- Co-founder, Architect*

- Built a responsive React/Typescript front-end for doctor note-taking and patient management, user management and billing, etc.
- Built a fully containerized and continuously deployed (via CircleCI) Go back-end API, with a Postgres database hosted on AWS RDS.
- Set up all AWS infrastructure, including EC2, ECR, RDS, SES, IAM, etc.

September 2018 - January 2021
**The Knot Worldwide** *- Senior Software Engineer*

- Led a team in extracting a guest data management service from a Ruby on Rails/Postgres monolith into a Go/MongoDB back-end API and worker. The process included creation of a "two-way data sync worker", which kept the old and the new databases in sync (i.e. maintained data equivalence) using AWS Lambdas.
- Expanded and maintained a guest messaging worker and API service with a Go back-end and DynamoDB database. The service is capable of emailing and texting guests via SES and Twilio based either on user and/or guest actions or account states. It strictly obeys messaging opt-in and opt-out user preferences.
- Expanded multiple React (some with Typescript and some without) applications for wedding website creation and guest list management.
- Monitored all application performance and errors using New Relic, Honeybadger, and various logging tools including AWS CloudWatch and Sumo Logic.

May 2015 - June 2017
**Childhood Industries** *- Co-founder, Co-creative Director, Event co-coordinator, Musician*

- Organized and coordinated live DJ events (150-300 people).
- Ran a small label releasing tapes of experimental techno and ambient music.
- Hosted and performed on a radio show on The Lot Radio.

May 2013 - September 2018
**The Achievement Network** - *Senior Software Engineer*

- Promoted to Senior Software Engineer in 2016. Began leading small teams and handling more architectural responsibilities.
- Developed Go microservices as part of ANet's assessment tool application in an Angular/Go/MongoDB stack.
- Built application features leveraging AWS services such as Step Functions, Lambdas, S3, SES, ECS, CloudFormation, etc.
- Led a team of developers in a full-stack overhaul of myANet, converting the site from a Google Web Toolkit (GWT) and Java Spring Framework architecture to an AngularJS front-end and Java-based back-end API architecture.
- Led a small team in the creation of a new internal administration system for managing users, schools, lessons, and other site content.

## Skills

- **Programming**: Go, React, JavaScript, AWS, AngularJS, Java, Spring Framework, HTML5, CSS/SASS/LESS, MySQL, PostgreSQL, MongoDB, DynamoDB, Git, SVN

- **Music**: Ableton Live, Logic Pro

- **Other**: Unity, Blender, Processing, Arduino