

**Michael Overton Brown**  
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## EDUCATION

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**B.Sc. (Honors) Mathematics, Computer Science**

2007-2012

*McGill University - Montreal, Quebec, Canada*

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

## WORK EXPERIENCE

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**Founder/Architect**

2021-Present

*Roundnotes Inc.*

Roundnotes is a HIPAA compliant, responsive patient management and note-taking tool for rounding doctors who need quick access to patient notes.

- Built a responsive React/Typescript front-end for patient note-taking and 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.

**Senior Software Engineer**

2018-2021

*The Knot Worldwide*

The Knot Worldwide provides a complete suite of tools for users to set up weddings, including tools for wedding website creation, guest list management and messaging, and wedding vendor booking.

- 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. their data was equivalent) 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.

**Senior Software Engineer**

2013-2018

*The Achievement Network*

The Achievement Network is a data-driven education nonprofit that partners with schools and provides rostering, assessments, and assessment performance reports through an online portal called myANet.

- 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

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<i>Technology</i>	Go, React, JavaScript, AWS, AngularJS, Java, Spring Framework, Ruby on Rails, AWS, HTML5, CSS/SASS/LESS, MySQL, Git, SVN, Processing, Arduino
<i>Other</i>	Organized underground electronic music events in Brooklyn, New York as a series called Childhood Industries. Runs a small record label by the same name focusing on experimental electronic music. DJs and produces music as Witness.