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Michael Overton Brown

Education

September 2007 - May 2012
McGill University - Montreal, Quebec, Canada
B.Sc. (Honors) Mathematics. Minor: Computer Science.

Experience

Sept 2021 - Present
Phasein Studio - *Founder, Creative Technologist*

- The goal of Phasein Studio is to create VR, digital, and game experiences for artists, businesses, and others.
- Currently working with artist Natalja Kent to create a VR component for an upcoming exhibition using Unity.

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

- Built a responsive React/Typescript front-end for doctors to take notes, manage patients, manage users, etc.
- Built a fully containerized and continuously deployed (via CircleCI) Go backend API, with a PostgreSQL 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 backend 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 API and worker service with a Go backend 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 - Feb 2018
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 in Brooklyn, NY.
- Designed flyers and other media.
- Performed and produced music as Witness.

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 backend 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, AngularJS, Java, Spring Framework, HTML5, CSS/SASS/LESS, AWS (EC2, Elastic Beanstalk, SES, ECR, ECS, Lambda, etc), MySQL, PostgreSQL, MongoDB, DynamoDB, Jenkins, CircleCI, Docker, Git, SVN

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

- **Games**: Unity, Blender

- **Other**: Arduino, Processing