

## Work Experience

### Software Developer

#### Pariveda

Feb 2022 - Present

- Developed a serverless microservice in AWS to connect our clients website to a third party API
- This microservice used Lambda Functions, APIGateway and DynamoDB
- Created ETL jobs in AWS Lambda to aggregate data into a single table in DynamoDB from various on premise SQL server databases
- Migrated team from CloudFormation to CDK reducing infrastructure development time by 80%
- Implemented AWS Secrets Manager to improve security of passwords being used in Lambda Functions
- Created an automated test suite in Python to test our microservice API
- Created an automated linter with Github Actions to lint only those files in the pull request

### Software Developer & Data Scientist

#### Crowdmark

Oct 2020 - May 2021

- Fixed front and back end bugs with Ember.js & Ruby on Rails improving UI/UX & test coverage
- Implemented an AI algorithm in Python that detects instances of plagiarism (fraud detection) using NLP
- Created SQL commands in PostgreSQL to extract and transform data for the fraud detection algorithm
- Implemented keyboard shortcuts that made online grading faster by ~ 5%

## Skills

**Languages:** Ruby (Ruby on Rails), Javascript & Typescript (React.js & Node.js), HTML, CSS, SQL, Python

**AWS:** IAM, RDS, S3, VPC, Code\*, ECS & Fargate, Secrets Manager, DynamoDB, CloudWatch, ALB, ASG, Lambda, APIGateway, SES, ElastiCache, OpenSearch, CloudFront, Route53

**Tools and DevOps:** Docker, Git, Linux, command line, Github Actions, CI/CD, CDK & CloudFormation

**Coding Principles:** System Design, OOP, Design Patterns, TDD, MVC, Clean Code, Agile methodology

**Communication:** Able to quickly & effectively communicate technical details to non-technical users

## Personal Projects

### Software Developer

#### Martlet

Sept 2021 - Present

- Working on a website, [www.martlet.io](http://www.martlet.io), that allows users to have discussions in the margins of PDFs
- Created a REST API with Ruby on Rails developed with Docker and deployed on ECS in a VPC with an ALB, ASG and RDS (PostgreSQL)
- Cloud services were deployed to AWS using CDK (with Typescript) in a multi-environment setup
- Created background processing jobs with Fargate and ElastiCache to process uploaded PDFs
- Created a dynamic front end using React.js with Typescript, S3, CloudFront & Route53
- Created email and elastic search functionality with SES & OpenSearch, respectively

## Education

### MA in Statistics

#### York University

2019 - 2020

- Survey Paper on Application of Bayesian Networks in Education

### BA in Mathematics & Economics

#### McGill University

2014 - 2019