# KIMBERLY ALIZADEH

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Languages : English (Fluent) | French (Advanced)
LinkedIn : linkedin.com/in/kimberly-alizadeh  | GitHub : github.com/kimalizadeh
Portfolio : https://kimalizadeh.github.io/Portfolio/

## PROFILE

Seeking an internship or entry level position as a full-stack developer. I am available starting April 11th, 2022.

## CORE DEVELOPER SKILLS & TOOLS

- **Back End**: Java/Java Spring, C#, .NET, PHP, Node.js, Python/Flask
- **Databases:** MySQL, PostgreSQL, MS SQL, DB Browser (SQLite)
- **Testing & Documentation:** JUnit, Javadocs, Postman
- **Collaboration:** Agile, Scrum, Git, GitHub, Trello, Lucidchart, Jira
- **IDEs:** IntelliJ, Visual Studio .Net, VSCode

- **Front End:** JavaScript, HTML, CSS, React, jQuery, Bootstrap
- **Web Services:** REST API
- **Cloud Services:** AWS (EC2, S3, Elastic Beanstalk), Azure, Docker, Linux, Virtual Machines, Heroku, Netlify
- **Data Visualization:** Python (Pandas, Matplotlib, Seaborn)

## EDUCATION

**Full-Stack Developer A.E.C**                                            May 2021 – Expected June 2022
John Abbott College, Montreal, QC
- Dean's List (maintained an average above 80%)

**Master of Applied Science: Biotechnology**                              Sept 2015 – Dec 2016
McGill University, Montreal, QC
- Dobson Cup Grit Prize: $2500
- Macdonald Entrepreneurship & Innovation Prize: $1600

**Bachelor of Science*:* Environment**                                    Sept 2008 – Dec 2011
McGill University, Montreal, QC

## SCHOOL PROJECTS

**HeartLeaf Boutique:**                                                   March 2022
http://heartleafboutique-env.eba-tsx3zm9u.us-east-1.elasticbeanstalk.com/
Created using ASP.NET, Razor Pages, SQL Server, Azure, AWS S3 & Elastic Beanstalk
- An e-commerce web application for plants that includes:
    - Image upload to S3
    - Payments using Stripe API
    - Address verification using PostGrid API
    - Search catalog
    - SendGrid e-mail confirmations
    - Admin CRUD

**PyBlog:** https://pyblog-fsd01.herokuapp.com/ March 2022
- Created mainly using:  Python, Flask, PostgreSQL, Bootstrap, S3, Heroku, Jinja2
- A mini blog application that includes:
    o Image upload to S3
    o User login and authorization
    o WTForms

**ConTrails:** An aircraft maintenance management desktop application Feb 2022
- Created using .NET, WPF, SQL Server, Azure
    o User authentication
    o Tracking and scheduling of flights
    o Tracking and scheduling of aircraft maintenance dates
    o PDF maintenance report generation
    o Installer

**JobFinder:** https://gracious-villani-f44d4b.netlify.app/ Jan 2022
- Created mainly using:  React, Node.js, Express, MySQL, Bootstrap
- A job search web application that includes:
    o Admin CRUD panel
    o Search catalog with pagination
    o Wishlist for job seekers
    o E-mail confirmations
    o Storage and retrieval of resume files from a database

**Book Barn:** https://bookbarndb.herokuapp.com/ Dec 2021
- Created mainly using:  Java Spring Boot, Thymeleaf, HTML, Bootstrap, PostgreSQL
- A library web application that includes:
    o Admin CRUD panel
    o Search catalog with sorting and pagination
    o E-mail confirmations using Gmail SMTP
    o Storage and retrieval of image and PDF files from a database

**Click Clinic:** https://clickclinic.fsd01.ca/ Nov 2021
- Created mainly using:  PHP Slim and Twig, MySQL, HTML, Bootstrap, AJAX, jQuery
- A medical clinical web application that includes:
    o Admin CRUD panel
    o Tailored dashboards with dynamic charts and relevant metrics
    o Calendar for scheduling appointments
    o E-mail reminders & virtual appointment capability

## BIOTECH EXPERIENCE

**Research Associate** Jan 2021 – May 2021
Hyasynth Biologicals Inc., Montreal, QC

- Conducted research on the development and optimization of scale-up processes of yeast fermentation
- Created Python scripts that improved data management and data visualizations
- Documented experimental designs, data, and analyses
- Communicated technical insights and recommendations to coworkers and supervisors

**Research Technician** – **R&D** Sept 2019 – April 2020
Lallemand Biofuels and Distilled Spirits, Montreal, QC

- Studied the impact of fermentation and distillation parameters on yeast strain kinetics, ethanol yield, and the formation of flavour molecules
- Completed quality control analyses
- Achieved desirable aroma profiles in rum distillates
- Analyzed GC-FID and GC-MS data of yeast metabolites
- Increased data processing efficiency by creating and implementing Excel macros
- Wrote and revised SOPs, internal reports, and technical briefs
- Trained interns on experimental procedures and equipment operation
- Presented results to R&D and management team members
- Assisted with the general maintenance and cleaning of the lab

**Process Lab Technician – R&D**                                          Sept 2018 – Aug 2019
Lallemand Biofuels and Distilled Spirits, Montreal, QC

- Tested the production feasibility of GMO and Non-GMO yeast strains
- Optimized production parameters such as: fermentable sugars, pH, oxygen, nitrogen source
- Evaluated the performance of production batches through corn mash, molasses, or xylose fermentations
- Propagated strains with closed batch and fed-batch systems using flasks and a 20L bioreactor
- Completed downstream processing using a variety of methods: centrifugation, filtration, extrusion, fluidized bed drying, and the addition of stabilizers
- Achieved a high success rate resulting in several strains becoming commercially viable
- Performed quality control testing at different production stages
- Presented results to R&D and management team members
- Assisted with the general maintenance and cleaning of the lab

**Biotechnology Research Intern**                                          May 2015–Dec 2016
McGill University, Montreal, QC

- Conducted research on the development of microbial concrete using cold-adapted microorganisms
- Collaborated with entrepreneurs, microbiologists, and civil engineers
- Performed compression, time of set testing, and durability testing of concrete samples according to industry standards (ASTM)
- Modelled and analyzed experimental data in Excel and MATLAB
- Wrote project proposals and reports and presented research to piers and supervisors