Mary Elizabeth Breen-Lyles

RUBY ON RAILS DEVELOPER

CONTACT

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1713 Shawnee Street
Durham, NC 27701

EDUCATION

M.S. MECHANICAL ENGINEERING
Northern Illinois University
August 2019 (GPA: 3.9)

B.S. PHYSICS
Beloit College
May 2017 (GPA: 3.9)

ACHIEVEMENTS

Research Publication (2019)
Direct Polymer Grafting as a Method of Preserving the Mechanical Properties of Cellulose Nanocrystals in the Presence of Moisture

Research Publication (2017)
Performance of Supercharged Engine Fueled with CTI Binary Mixture at Different Injection Pressures

EXPERIENCE

Ruby on Rails
Python
GraphQL
Celery, RabbitMQ
Test Driven Development
API construction
Client Communication
Technical Communication
Documentation
Feature Design

Git
VS Code
Redis
ElasticSearch
Postgres
Docker
Postman
Jira
Confluence
Patience

SUMMARY

Nimble, critically-thinking, conscientious worker with design and programming experience from a broad set of research and web development projects. Lover of people, sincere communication, math, problem-solving, and peanut butter. Genuine enthusiasm and sense of humor!

WORK EXPERIENCE

2022

Software Engineer (Ruby on Rails), Spreedly, Inc.
Durham, NC (June 2021 - September 2022)

- Fullstack development for large-scale, distributed payment processing and gateway aggregation API that created an abstracted payment processing system connected with >100 different third-party payment service providers (PSPs)
- Responded quickly to incidents, and distilled technical information to communicate effectively with external teams
- Conducted thorough code reviews collaboratively with team members
- Authored comprehensible, organized design proposals and documentation

2020

Software Engineer (Ruby on Rails), Fooda, Inc.
Chicago, IL (March 2020 - October 2020)

- Frontend and backend development for scalable, distributed e-commerce and scheduling management platform used by customers, restaurant partners, and internal team members
- Wrote clean code + tests in Ruby on Rails with documentation and participated in code reviews
- Collaborated with designers and engineers to build APIs and web services, using an agile development methodology with a focus on test-driven development
- Ensured my contributions met high performance standards

2019

Freelance Web Developer, Self
Chicago, IL (July 2019 - February 2020)

- Communicate effectively and harmoniously to maintain positive client relationships
- Draw up thorough contract documents with detailed descriptions for project plans/estimates
- Independently build web tools and applications for clients while managing both business and technical aspects of projects, always delivering high-quality production code

2018

Graduate Research Assistant, Northern Illinois University
DeKalb, IL (January 2018 - August 2019)

- Designed and executed molecular dynamics (MD) simulations to demonstrate the effectiveness of polymer grafting at enhancing mechanical properties of a cellulose nanofiller
- Executed molecular computations across distributed systems, applying Tool Command Language and Python scripting to analyze output data
- Compiled LAMMPS from C++ source code with MAKE, using Linux as both development and runtime environment
- Ancillary use of a remote Linux HPC cluster for simulation processing
- Learned an assortment of MD simulation/visualization software, with TCL/Python3 scripts and Excel for data analysis and acquisition.