

# MELONY ERIN FRANCHINI · Backend Software Engineer

Buena Vista, Colorado • melony.franchini@gmail.com • 303.495.4624

## SUMMARY

As a software engineer with a Master of Education in Adult Learning, I'm passionate about creating innovative software tools that enhance organizational efficiency, facilitate knowledge transfer, and empower individuals to reach their goals. I bring a keen ability to grasp new subjects, simplify complex concepts, and effectively communicate with individuals at all levels of an organization.

## EDUCATION

<b>Turing School of Software and Design</b>   Certificate of Completion in Backend Software Engineering	06/2023
<b>University of British Columbia</b>   Master of Education (M.Ed.) in Adult Learning and Global Change	05/2018
<b>University of Colorado, Denver</b>   Graduate Certificate in Business & Entrepreneurship	12/2012
<b>University of Nevada, Las Vegas</b>   Bachelor of Arts (B.A.) in Theatre Arts	08/2006

## PROFESSIONAL EXPERIENCE

**Backend Software Engineer** | Freelance | Remote 10/2023 – Present

- Collaborated on a brownfield, affordable housing app with a local Chamber of Commerce member.
- Led the development of a full-stack web app as the Backend Technical Lead for the WWCode Hackathon for Social Good, while also serving as the Project Manager of a diverse, 6-member, international team.

**Founder & Language Editor** | English Stage Lab | Remote & Türkiye 06/2020 – 10/2022

- Edited medical research documents and professional journal papers translated from the Turkish language.
- Ensured consistency in terminology and style across each document based on client requirements.
- Designed private English lessons based on learner needs: Business English, Fluency, and US culture.

**University Lecturer** | KEPCO International Nuclear Graduate School | South Korea 03/2016 – 03/2018

- Independently established the school's first technical writing curriculum including Academic Writing, Thesis Writing, and Technical Presentations which successfully graduated over 200 international nuclear engineers.
- Translated nuclear-related source materials into user-friendly language to be used for classroom activities.
- Provided instruction on IEEE style-guide, citation and referencing, and language consistency in research.
- Piloted the first after-hours ESL program to enhance soft skills: collaboration, negotiation, & persuasion.

**English Language Instructor** | Korea Hydro & Nuclear Power Co. | South Korea 02/2014 – 03/2016

- Established the OSSA English Language Training Program which improved the teaching, speaking, and course development skills of 20+ senior nuclear engineers; achieved over 2 years with a 4-person team.
- Developed new operating procedures, student-tracking documentation, and standardized learning materials.
- Held monthly status report meetings with OSSA Team Lead and KHNP-HRDI Director General.
- Provided technical language courses for the Barakah Nuclear Power Plant (BNPP) Training Program.
- Worked alongside Subject Matter Experts (SMEs) to co-develop training materials on Safety Culture, General Fundamentals (GF) and Integrated Systems Course (ISC).

**Public School English Teacher** | Busan Ministry of Education | South Korea 02/2013 – 02/2014

- Prepared lesson plans, schedules, classroom materials, summer camps, and exams for elementary school.
- Provided additional language instruction for low-level students & nominated twice to create support program.

**Executive Assistant** | EMW Private Enterprise | Hybrid/Brooklyn, NY 10/2011 – 12/2012

- Managed cash, tracked invoices, and handled all phone/email communication for owner of 3 restaurants.
- Recorded bills, checks, cash, and invoice payments with QuickBooks; booked all international reservations.

**Associate Chief Operations Officer** | Drala Mountain Center | Red Feather Lakes, CO 03/2009 – 12/2009

- Assisted in Strategic Business Plan Meetings with COO, Executive Director, and 15+ Board Members.
- Maintained the Intranet Request Tracking system; trained others and managed status of multiple projects.
- Held weekly meetings with all departments: Kitchen, Facilities, Guest Services, Housekeeping, and Grounds.
- Independently established organization's first Recycling Program by collaborating with local business owners and law enforcement to recycle over 12 abandoned vehicles.

# MELONY ERIN FRANCHINI · Backend Software Engineer

Buena Vista, Colorado • melony.franchini@gmail.com • 303.495.4624

## SKILLS

**Leadership & Communication:** Cross-Team Collaboration, Global-Cultural Awareness, Active Listening, Critical Thinking, Decision-Making, Prioritization, Creative Problem Solving, Emotional Intelligence, Conflict Resolution, Research, Editing and Proofreading, Microsoft Office Suite, Google Workspace, Notion, Miro, Figma

**Software Development:** Ruby on Rails, SQL, ActiveRecord, RSpec, PostgreSQL, SQLite3, Postman, Heroku, Vultr, AWS EC2, GitHub, Cloudinary, Twilio/SendGrid, HTML, CSS, TailwindCSS, Libre Board, REST APIs, Markdown, Flow Diagramming, Object-Oriented Programming (OOP), Test-Driven Development (TDD), CircleCI, GitHub Actions, Continuous Integration & Continuous Deployment (CI/CD), Accessibility, Agile Methodology

## SOFTWARE PROJECTS

**The Missing Piece**, International E2E Development Team | 80 Hours | [BE Repo](#) & [FE Repo](#)

**Tech Stack:** Ruby on Rails, PostgreSQL, RSpec, ActiveRecord, Github Actions, Heroku, Postman, Cloudinary

➔ *Created a puzzle-sharing, full-stack web application to support senior mental and emotional wellbeing.*

**Role: Project Manager**

- Led a 6-member, international team through ideation, planning, creation, and launch of a full-stack web application for the Women Who Code Hackathon for Social Good 2023; work completed within 10 days.
- Quickly adapted to changing circumstances and limitations; made executive and collaborative decisions.
- Led daily standup meetings and managed all tickets/issues for the Backend team's GitHub project board.
- Provided supportive and constructive feedback to the Frontend team through each phase of development.

**Role: Backend Technical Lead**

- Independently handled schema design, user authentication & authorization, deployment, and CI/CD setup.
- Provided technical feedback through pull request (PR) reviews, Slack, and in-person while pair programming.
- Integrated the cloud-based platform Cloudinary for efficient image upload and storage management.
- Refactored entire backend repository to ensure implementation of coding best practices including proper error handling, abstraction, encapsulation, and inheritance.

**ALPs (Advanced Language Practices)**, E2E Development Team | 80 hours | [BE Repo](#) & [FE Repo](#)

**Tech Stack:** Ruby on Rails, PostgreSQL & SQLite3, Heroku & AWS EC2, RSpec, SQL, Github Actions, Postman

➔ *Created a language-practice app that queries AI with user input and returns foreign language corrections.*

- Wrote and refined an OpenAI prompt query to return consistent and reliable responses.
- Built a RESTful API with full CRUD functionality using Service-Oriented Architecture & TDD.
- Researched Amazon Web Services for 20+ hours: Elastic Beanstalk, EC2, S3 buckets, and DRS databases.

**Do Good**, Backend Developer Team Project | 100 Hours | [BE Repo](#) & [FE Repo](#)

**Tech Stack:** Ruby on Rails, PostgreSQL, TailwindCSS, CircleCI, Heroku, Google Cloud, AWS S3, Twilio/SendGrid

➔ *Developed entire app to allow users to select a random good deed, invite others to event, and share images.*

- Independently built a production-quality user interface (UI) with HTML, CSS, and TailwindCSS.
- Authenticated users with Google OAuth and integrated Google Calendar through the Google Cloud Platform.
- Optimized database storage by uploading, storing, and retrieving image metadata via an Amazon S3 bucket.

## ADDITIONAL CERTIFICATIONS

<b>Graduate Certificate</b>   Turkish Language (C1/Advanced)	10/2020
<b>Competent Leader &amp; Competent Communicator</b>   Toastmasters International	02/2017
<b>K-12 Professional Educator License (Florida)</b>   English for Speakers of Other Languages	07/2016

## VOLUNTEERING

<b>Curriculum Consultant</b>   KEP NGO (Textile Atelier)   Türkiye	08/2023 – 09/2023
<b>Summer Camp ESL &amp; Activity Leader</b>   Jazyková Škola - Camp Wonderland   Slovakia	07/2018 & 07/2019
<b>Archaeological Fieldworker</b>   Univ. of Nebraska-Lincoln (Antiochia ad Cragum)   Türkiye	06/2018 – 06/2018
<b>Animal Care Provider</b>   Busan Abandoned Pet Sanctuary (BAPS)   South Korea	07/2013 – 02/2014
<b>English Teacher</b>   Teach & Learn with Georgia   Republic of Georgia	07/2012 – 12/2012
<b>Administrative Assistant</b>   Charity: Water (Corporate Office Headquarters)   NY, USA	10/2011 – 05/2012
<b>Construction Intern</b>   Earthship Biotecture   Mexico	02/2010 – 02/2010