

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

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

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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

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

VOLUNTEERING

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