**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 Korea03/2016 – 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 Korea02/2014 – 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 Korea02/2013 – 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, NY10/2011 – 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](https://github.com/WWC-Hackathon-2023/missing_piece_api#readme) & [FE Repo](https://github.com/WWC-Hackathon-2023/the_missing_piece_fe#readme)

**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](https://github.com/A-L-P-s/ALPs_api_sqlite_finale#readme) & [FE Repo](https://github.com/A-L-P-s/alps-ui#readme)

**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](https://github.com/do-good-2211/do_good_api#readme) &[FE Repo](https://github.com/do-good-2211/do_good_web#readme)

**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