MELONY ERIN FRANCHINI · Backend Software Engineer

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SUMMARY

As an agile Backend Software Engineer, I'm passionate about creating innovative software tools that enhance organizational efficiency, facilitate knowledge transfer, and empower individuals to reach their goals. With a Master of Education in Adult Learning & Global Change, I bring a keen ability to learn new subjects, simplify complex concepts, and communicate with diverse groups of people.

TECHNICAL SKILLS

- **Technology:** Ruby, Ruby on Rails, RSpec, ActiveRecord, SQL, PostgreSQL, SQLite3, TailwindCSS
- **Others:** Test-Driven Development (TDD), Agile Methodology, Postman, CircleCI, Vultr, Heroku, Redis, Sidekiq, Twilio/SendGrid, Git, GitHub, GitHub Actions, GitHub Projects, Figma, Miro, HTML, CSS
- **Exploring:** Python, Django, C#, .NET, AWS, Docker, Kubernetes

SOFTWARE PROJECTS

ALPs (Advanced Language Practices), E2E Development Team | 80 hours | BE Repo & FE Repo
Tech Stack: Ruby on Rails, PostgreSQL & SQLite3, RSpec, GitHub, Postman, Github Actions, Heroku & AWS EC2
Created a web application to query AI with user input and return foreign language corrections.
- Wrote and refined OpenAI prompt query to return consistent and reliable responses.
- Took on additional responsibilities that played a critical role in the successful delivery of the project.
- Researched 20+ hours: AWS Elastic Beanstalk deployment, AWS EC2 instances, and DRS databases.

Do Good, Team Project | 100 Hours | BE Repo & FE Repo
Tech Stack: Ruby on Rails, PostgreSQL, AWS S3 Bucket, Google Cloud, Twilio, Tailwind, CircleCI, Heroku
Developed and deployed a web application using Service-Oriented Architecture & CRUD functionality.
- Initiated creation of a JSON contract to guarantee delivery of minimum viable product within tight deadline.
- Authenticated users with Google OAuth & rendered their Google Calendar with Google Cloud.
- Optimized database storage by storing and retrieving image metadata via an Amazon AWS S3 bucket.
- Delivered emails with cloud-based service provider Twilio/SendGrid.
- Built a production-quality user interface (UI) with the TailwindCSS framework.

Whether the Weather, Solo Project | 40 Hours | Repo
Tech Stack: Ruby on Rails, RSpec, Capybara, JSON, GitHub, Postman
Independently built a backend, RESTful API web application.
- Exposed a custom API that aggregates data consumed from multiple external endpoints.
- Implemented user password authentication, API key creation, and API key validation.
- Utilized TDD practices to ensure comprehensive code coverage and functionality.

Mentoring Side Projects: Phoenix Mythical Creature (Ruby) | Potluck (Ruby) | Zoo Manager (MVC)
Led workshops & mentoring sessions to reinforce fundamental skills with incoming cohorts of Turing students.

EDUCATION

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

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PROFESSIONAL EXPERIENCE

Backend Software Engineer (Apprentice) | Turing School of Software & Design | Remote   11/2022 – 06/2023
- Built over 13 web applications throughout this 7-month, 70-hour-a-week Software Engineering program.
- Deployed multiple apps implementing Service-Oriented Architecture, CRUD functionality, and RESTful APIs.
- Collaborated in both pairs and groups in a remote setting on greenfield and brownfield projects.
- Followed the principles of Object-Oriented Programming, Test-Driven Development, & Agile Methodology.

Founder & Language Editor | English Stage Lab | Remote & Turkey   06/2020 – 10/2022
- Edited medical research and other professional papers that had been translated from the Turkish language.
- Provided private English lessons based on learner's needs: Business English, Fluency, and US culture.

University Lecturer | KEPCO International Nuclear Graduate School | South Korea   03/2016 – 03/2018
- Established school's first writing curriculum: Academic Writing, Thesis Writing, and Technical Presentations.
- Piloted the first after-hours ESL program to enhance soft skills including collaboration, negotiation, persuasion, and listening.

English Language Instructor | Korea Hydro & Nuclear Power Co. | South Korea   02/2014 – 03/2016
- Developed a professional English training program to improve teaching skills of senior nuclear engineers.
- Designed monthly courses on fluency-building speaking skills, lecture preparations & teaching practice.
- Provided language guidance on Safety Culture, General Fundamentals (GF) and Integrated Systems Course (ISC) lecture preparations as well as how to conduct classroom discussions and Q&A sessions.

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 grades 3-8.
- 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, scheduled payroll calendar, created reports, and acted as phone/email liaison for owner of three busy restaurants.
- Recorded bills, checks, and invoice payments with QuickBooks; made all international reservations.

Associate Chief Operations Officer | Drala Mountain Center | Red Feather Lakes, CO   03/2009 – 12/2009
- Held weekly meetings to coordinate schedules between all departments: Kitchen, Facilities, Guest Services, Housekeeping, Meditation & Education, and Land Stewards.
- Created organization's first Recycling Program; collaborated with local business owners and law enforcement to recycle 12 abandoned cars.

ADDITIONAL QUALIFICATIONS

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
Animal Care Provider | Busan Abandoned Pet Sanctuary (BAPS) | South Korea	07/2012 – 12/2012
English Teacher | Teach & Learn with Georgia | Rep. 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