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### AI Large Language Model (LLM) & Ruby on Rails Development

*An MIT grad software engineer, I have 20+ years full life-cycle experience, from requirements gathering, design & development to maintenance. I have recent experience as an AI Large Language Model (LLM) evaluator & trainer using Python, Java, JavaScript, C, and C++. Prior to my recent AI experience, I worked in Ruby on Rails for 14 years, including Node.js, Postgres, MySQL, and front end languages. In addition, I also have training, authorship, consulting, and liaison experience.*

### EDUCATION

**Massachusetts Institute of Technology.** B.S. Electrical Eng. National Merit Scholar.  
**Harvard University.** Graduate extension school coursework in expert systems, C++, object-oriented programming, and discrete mathematics.

### WEB LINKS

<http://edwinmeyer.com> – Includes recommendations from colleagues.  
<http://linkedin.com/in/edwinmeyer> – Includes recommendations from colleagues.  
<http://github.com/edwinmeyer> – Contains several tutorials, coding and design demo projects.

### LARGE LANGUAGE MODEL (LLM) EXPERIENCE

**Outlier** (San Francisco) February 2024 – Present

- Evaluate the output of various large language models for the Scale.com subsidiary Outlier. The work involves various techniques, including:
  - 1) Comparing the output of two or more chatbot responses to a provided prompt, often in Python, selecting the best, and often correcting bad responses so the LLM can learn from this.
  - 2) Writing a prompt and specifying the language to be used to compute the solution, then evaluating the output and correcting code bugs.
  - 3) Reviewing and commenting on the work of others.
- Work performed remotely from my Chicago home office.

**Environment:** Custom evaluation web framework, Python 3, Java, JavaScript, C, and C++.

### SUMMARY OF OTHER PROJECT SKILLS

*Architecture - mostly in Ruby & Rails:*

- Architected a successor Ruby on Rails app - based on the Strangler Fig pattern of Martin Fowler - to one that was deemed too flawed for further incremental modification. (Mayo Clinic Laboratories)
- Converted an existing app running on Heroku to be multiple tenancy and extended its role-based access control. (University of Illinois Medical School)
- Designed and implemented Bayesian and other statistical modules for

- automatic categorization of new advertiser offers. (Local Offer Network)
- Designed and implemented a radiation exposure intake system. (Argonne National Laboratory)
- (Also architecture activities at Finastra, Pearson, Cars.com, and Venture Interactive)

*DevOps, AWS & Other Remote Services:*

- Heroku deployments. (University of Illinois Medical School )
- Dockerization & deployment to AWS. (University of Massachusetts Medical School)
- Deployed a hybrid RoR app with connectivity to a Windows Server website. (McDavid)
- Developed in multiple apps deployed to AWS.

*API Development:*

- Developed REST API endpoints using Ruby on Rails and Node.js. (Nutrien Ag Solutions)
- Developed Ruby on Rails REST API endpoints and consumed internal idiosyncratic APIs. (Sears Holdings)
- Finastra work involved consuming public APIs using Ruby on Rails.
- Also wrote a REST API tutorial which demonstrates my grasp of API principles as well as my communications and authorial skills.  
(<https://github.com/edwinmeyer/contacts-api-service>)

*Consulting, Documentation & Training:*

- Documented briefings by departing general manager and others in Austin, TX for transmission to new Chicago development team. (Cars.com)
- Developed courseware & delivered it to groups in German-speaking Europe. (Lotus Development)
- Collaborated with radiation safety staff regarding moving an existing paper-based system to the web. (Argonne National Laboratory)
- Documented existing procedures and own development work. (Multiple assignments)

*Other:*

Also performed a wide range of other computer-related activities, including working as a sales engineer and dev-ops, and writing computer magazine articles and end-user computer books.

**LIST OF RUBY ON RAILS POSITIONS**

*Sixteen+ projects since 2008, with a mix of primarily server-side and ancillary technologies plus front-end development. All projects run on a Linux server, and most work was performed on a MacBook Pro workstation. Many projects used some form of the agile methodology.*

**Univ. of Massachusetts Medical School** (Amherst, MA) July 2022 – November 2023

**Bus Patrol** (Lorton, VA) October 2022 – March 2023

**U.S. Citizenship and Immigration Services** (Washington, DC) April, 2021 – May, 2022

**Finastra USA Corporation** (Austin, TX) January – April, 2021

**Pearson Education** (Bloomington, MN) May – September, 2020

**Mayo Clinic Laboratories** (Rochester, MN) August, 2019 – January, 2020  
**Nutrien Ag Solutions** (Loveland, CO) April, 2018 – January, 2019  
**University of Illinois Medical School** (Chicago, IL) October, 2017 – February, 2018  
**Pinnacol Assurance** (Denver, CO) March, 2016 – February, 2017  
**Huron Consulting Group** (Chicago, IL) March – June, 2015  
**Cars.com** (Chicago, IL) August 2014 – March 2015  
**Sears Holdings Corporation** (Chicago, IL) October 2012 – November 2013  
**Local Offer Network** (Chicago, IL) February – May 2012  
**Aon Hewitt Corp.** (Lincolnshire, IL) May 2011 – January 2012  
**Argonne National Laboratory** (Lemont, IL) August 2010 – January 2011  
**Metromix.com** (Chicago, IL) December 2009 – March 2010  
**Venture Interactive** (Harrisonburg, VA) December 2008 – September 2009 & October 2012 – November 2013

#### **OTHER EXPERIENCE – HIGHLIGHTS**

**McDavid, Inc.** (Woodridge, IL) February 2013 – March 2014  
Assumed responsibility for deployment, maintenance, and improvement of the hybrid Rails/Windows Server sales website of a sports protection equipment manufacturer following development of the new Rails application by a web design studio.

**Digimarc Corporation** (Burlington, MA) – Analysis, design and implementation of several drivers license systems. (Java J2EE & C++)

**Polaroid Corp.** (Bedford, MA) – Analysis, design and implementation of several drivers license systems. (Java J2EE & C++)

**Lotus Development Corp.** – *Sales Engineer* - Munich, Germany. Provided support and trainings in German on Lotus Notes for value added resellers and customers.

**Lotus Development Corp.** – *Principal Software Engineer* – Cambridge, MA. C-API development for a database product.

**M.I.T. Project MAC** – *Staff Member* - Cambridge, MA. MULTICS operating system development including: ARPANET software interface, graphics system, system internals.

#### **OTHER**

- Competent in German; studied Russian.
- U.S. Citizen.