

Adona Luiza Iosif

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SUMMARY

Software Engineer with strong analytical, communication, and leadership skills. Experience with entire development process from design to release — particularly focused on back-end development and cloud/infrastructure, but excited to strengthen full-stack competency. Care deeply about understanding holistic needs of an organization or team, with experience in management, public communication, teaching and mentorship. Passionate about social impact tech work, looking to grow with and contribute to like-minded team.

EDUCATION

University of Cambridge

B.A. Computer Science
2008 - 2011

Carnegie Mellon University

Ph.D. student, Machine Learning
2011 - 2014

SKILLS

Web App Development

Rails, Golang,
HTML, CSS, JS, ReactJS

Cloud, CI/CD

GCP, Docker, Kubernetes,
Terraform, Helm

Data Analysis & Visualization

Python, Airflow, D3

Processes & Tools

Scrum, Jira, Git

TECHNICAL WORK

Benefits Data Trust

Software Engineering Manager
Apr - Dec 2021

- Managed team of 5 back- and front-end engineers focused on greenfield work and medium-to-large refactors
- Hired and mentored two mid-level engineers, and helped interview for other positions across the department
- Collaborated with product team and tech leads to review project designs, identify open questions, make core architecture decisions, and provide high-level estimates
- Led back-end refinement sessions, code reviewed PRs, unblocked team where needed
- Supported team transition to Scrum

Back-End Software Engineer

Sept 2019 - Apr 2021

- Implemented a new mobile web application that enables clients to send required documents by taking photos with their smartphone [*Rails, Golang*]
- Set up the application infrastructure and CI/CD pipeline [*GCP, Terraform, Docker, Kubernetes*]
- Co-designed and implement a large refactor of our data sharing and user permission systems [*Rails, Pundit*]
- Designed and implemented a custom data preprocessing and normalization library, and integrated it in our ETL pipelines [*Python, Airflow*]

Carnegie Mellon University

Ph.D. Student, Machine Learning

Sept 2011 - Dec 2014

- *Coursework:* Machine Learning, Statistics, Optimization
- *Research:* Developed a theoretical framework and novel algorithms for spectral learning – a class of learning and inference algorithms for models with latent variables, for which log-likelihood methods fail due to high non-convexity.
- *[For health reasons, left program early without a degree.]*

Google (Mountain View)

Software Engineering Intern

June - Aug 2013

Analyzed patterns of thermostat use to inform improvements in the auto-schedule algorithm and user experience of a smart thermostat project. *[R]*

Google (London)

Software Engineering Intern

June - Aug 2010

Front- and back-end development for the iPhone Google Search app. *[Objective C, Java]*

SCIENCE COMMUNICATION WORK

National Academy of Sciences

Program Coordinator, Science & Engineering Ambassadors Program

Jan 2016 - Feb 2017

- Developed workshops on energy and climate for audiences in government, nonprofit, industry, and business sectors.
- Coached energy experts 1-to-1 in communication content, visual design, and delivery.
- Assisted the City of Pittsburgh in developing the City's Climate Action Plan.

Public Communication for Researchers

Co-founder, Carnegie Mellon University

2012 - 2015

- Started a science communication program at CMU teaching graduate students to talk about their work to the media, policy makers, and the public.
- Provided training in storytelling, presentation and writing for non-technical audiences, and talking to the media to 400+ students from across all STEM departments and years.
- Team named one of top 30 U.S. innovators in science communication in National Science Foundation survey.

TEACHING & SERVICE

- **Teaching:** TA-ed two graduate-level Machine Learning courses, designed and taught semester-long science presentation course in the ML department.
- **Volunteering:** With the East End Cooperative Ministry (homeless shelter and soup kitchen), The Big Idea Bookstore (cooperative bookstore dedicated to social justice literature), and the Student Conservation Association (trail maintenance in a North CA National Park).