

# DANIEL KALEMI

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## EDUCATION

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### University of California, Berkeley

Berkeley, CA

*MDE - Master of Development Engineering, AI & Data Analytics (GPA: 3.76)*

2021 – Dec 2022

- Received full funding through the flagship *Fund of Excellence* Scholarship (\$70k/year for the top 15 applicants).
- *Relevant Coursework:* Applied Machine Learning, Data Engineering, Digital Transformation of Development.

### The Open University | American College of Thessaloniki (ACT)

United Kingdom & Greece

*Dual B.S. - Computer Science (GPA: 3.86)*

2017 - 2021

- *Thesis:* Fairness Assessment on Facial Recognition Technology (FRT): Racial and Gender debiasing through a semi-supervised Variational Autoencoder Model (VAE). Advisor: Dr. Alexander Astaras.
- Awarded the Class of 2021 Stavros S. Niarchos Award for Excellence in Computing (top 2 CS students).
- *Relevant Coursework:* Design and Analysis of Algorithms, Data Structures, Computer Architecture, Intro to AI.

## WORK EXPERIENCE

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### Squishy Robotics

Berkeley, CA

*Machine Learning Graduate Student Researcher*

Sep 2021 – present

- Utilize Python and ML to build Wildfire detection capacity for the robot, through multiscale & sensor data.
- Joined the AI Research team, co-authoring an upcoming research paper on Wildfire & Methane Leaks detection.

### United Nations - International Telecommunication Union (ITU)

Geneva, Switzerland

*Data Analyst*

May 2021 – Aug 2021

- Built data pipelines to analyze and visualize data with Tableau for digital policy drafts on ICT sustainability.
- Presented data-driven policy memos to ITU member states & policymakers across 5 United Nations agencies.

### Internet Society - InterPlanetary Networking Special Interest Group (IPNSIG)

Los Angeles, CA

*Researcher/Web Developer*

Dec 2020 – Jan 2021

- Assembled, organized, and maintained an annotated open library of IPN documentation on Zotero.
- Drafted, instantiated & populated branches of the 200+ document-tree structure.
- Updated and supported the IPNSIG website, using Wordpress plugins and Javascript.

## PROFESSIONAL DEVELOPMENT

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### Examine It

Berkeley, CA

*Co-Founder & COO*

2021 - present

- Leading a health-tech initiative, to build an accessible AI-powered device to diagnose Diabetic Retinopathy.
- Selected among the 16 finalists on the *Big Ideas Contest* (out of 200+ submissions), running for the \$20k prize.

### International Telecommunication Union (ITU)

Geneva, Switzerland

*Digital Youth Envoy*

Dec 2020 – present

- Selected Young Leader in European ICT Policy, representing youth from 46 countries in the region.
- Facilitated the Environment and Emergency Telecommunications working groups, concerning the circular economy, remote Internet access and e-waste management & monitoring.

### MIT Policy Hackathon

Cambridge, MA

*1<sup>st</sup> prize – Internet Policy Challenge*

Oct 2020

- Won *Atlantic Council's* policy challenge (\$1000) for analyzing open-source data on Global Internet Shutdowns.
- Co-authored a policy paper to be published next Fall - **MIT Science Policy Review, Vol. 3** "Impact of *Internet Shutdowns on freedom of expression*" (Carneiro, G., **Kalemi, D.**, Landwehr, H., Paeth, K., Sunami, M.)

## SKILLS

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CS: Python, R, Java, C++, PHP, C#, No/SQL, **Web Dev** (JavaScript, Flask, ASP.NET, REST APIs, MERN full stack).

Analytical: **Frameworks** (Azure, AWS, Google Cloud, TensorFlow, Keras, Spark, Hadoop) **ML** (Regression, Clustering, Classification, Decision Trees, Deep Learning, GANs), **Visualization** (Power Bi, Tableau, Matlab, Figma, UI/UX).

Languages: Albanian (native), Greek (native), English (bilingual), Italian (beginner), Spanish (beginner).