

# DANIEL KALEMI

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## EDUCATION

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### University of California, Berkeley

MDE - Master of Development Engineering, AI & Data Analytics (GPA: 3.84)

Berkeley, CA

2021 – Dec 2022

- *Capstone: The role of DeFi DAOs in community-building and financial inclusion in developing regions.*

- *Relevant Coursework:* Product Management, Applied Machine Learning, Data Engineering, Blockchain, DeFi.

### The Open University | American College of Thessaloniki

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

London, UK | Thessaloniki, Greece

2017 – 2021

- *Thesis: Fairness Assessment on Facial Recognition Technology (FRT): Racial and Gender de-biasing through a semi-supervised Variational Auto-encoder Model (VAE).*
- *Relevant Coursework:* Design/Analysis of Algorithms, Data Structures, Statistics, Calculus, Algebra, Intro to AI.

## WORK EXPERIENCE

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### Data Scientist | Sutardja Center, UC Berkeley College of Engineering

Berkeley, CA | June 2022 – present

- Conducting research on the 4 main Decentralized Finance (DeFi) Crypto Lending & Borrowing Platforms.
- Building 10+ financial models and data APIs to analyze the valuation of governance tokens for Decentralized Autonomous Organizations (DAOs), throughout voting, to determine the alignment of stakeholder incentives.
- Assembling and analyzing novel data on DAO proposals, discussions, voting outcomes, and market reactions.

### Machine Learning Engineer | Squishy Robotics

Berkeley, CA | Sep 2021 – May 2022

- Designed 2 computer vision models to build Wildfire detection capacity for the Squishy robot prototype.
- Gathered, processed and analyzed <1.5 million multi-scale (satellite, drone, on-the-ground) & sensor data.
- Joined the AI Research team, co-authoring an upcoming paper on Wildfire & Methane Leaks detection.

### Data Analyst Intern | United Nations - ITU

Geneva, Switzerland | May 2021 – Aug 2021

- Built a streamlined data pipeline using Python, to automate the aggregation of 30+ data sources.
- Visualized the results of the interpreted data with Tableau, to prepare 3 digital policy drafts on ICT sustainability.
- Presented data-driven policy memos to ITU member states & policymakers across 5 United Nations agencies.

### Software Engineer Intern | Internet Society

Remote | Dec 2020 – May 2021

- Assembled, organized, and maintained an annotated open library of Inter-Planetary Networking documentation.
- Drafted, instantiated & populated branches of the 300+ document-tree structure on Zotero.
- Updated and supported the IPNSIG website, using Wordpress plugins and Javascript.

## PROFESSIONAL DEVELOPMENT

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### Digital Youth Envoy | United Nations - ITU

Geneva, Switzerland | Dec 2020 – present

- Selected Young Leader in European ICT Policy, representing youth from 46 countries in the region.
- Led 2 of the 10 working groups (Environment and Emergency Telecoms) on e-waste management & monitoring.

### Co-Founder | Examine It

Berkeley, CA | Dec 2021 – present

- Managed a health-tech startup, building an accessible AI device to diagnose Diabetic Retinopathy through ML.
- Won the \$5000 prize among the 16 finalists on Big Ideas Contest (out of 200+ submissions).

### Winning Team | MIT Policy Hackathon - Internet Policy Challenge

Cambridge, MA | Oct 2020

- Won *Atlantic Council's* policy challenge for analyzing open-source data on Global Internet Shutdowns \$2k prize.
- Co-authored a policy paper on Internet Shutdowns & freedom of expression for the MIT Science Policy Review.

## SKILLS

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Programming: Python, SQL, R, Java, C++, PHP, C#, **Web Dev** (JavaScript, Flask, 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).

Entrepreneurial: Problem Solving, Lean/Agile Product Management, Human-Centered Design, Go-To-Market Strategy.