

# Daniel Kalemi

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## EDUCATION

### University of California, Berkeley

Berkeley, CA

*Master of Development Engineering - Artificial Intelligence and Data Analytics [Major GPA: 4.0]*

Dec 2022

- Coursework: AI for Healthcare, Applied Machine Learning, Computer Vision, Lean Product Management

### The Open University & American College of Thessaloniki

Thessaloniki, Greece

*Dual Bachelor of Science - Computer Science [GPA: 3.86]*

July 2021

- Coursework: Design and Analysis of Algorithms, Data Structures, Advanced Statistics, Mathematics for ML

## EXPERIENCE

### Data Scientist

June 2022 – Present

*Berkeley Engineering*

*Berkeley, CA*

- Conducting a novel Blockchain research on the top 4 Decentralized Finance (DeFi) Crypto Lending protocols
- Implemented data automation by building 4 custom APIs with Python, increasing data analysis speed by 600%
- Utilized Python and SQL to analyze over 2,000 proposals, 500 voting results, and 20 other business metrics
- Created 10+ financial models using Excel, resulting in 60% increase in research clarity on voting mechanisms
- Sharing the results through high-quality Tableau data visualizations and policy recommendations

### Co-Founder / Head of Data

Dec 2021 – Nov 2022

*Examine It*

*San Francisco, CA*

- Managed a health-tech startup, building a low-cost Diabetic Retinopathy diagnosing device using ML and lenses
- Raised MVP funds, by winning a \$5000 prize among the 16 finalists on the Big Ideas Contest
- Collaborated with a cross-functional team of engineers, doctors, designers to analyze customer needs and usability
- Developed and maintained robust data pipelines and workflows to ensure data integrity and reliability
- Analyzed and interpreted large datasets to identify patterns & trends and communicated insights to stakeholders

### Machine Learning Engineer

Sep 2021 – May 2022

*Squishy Robotics*

*Berkeley, CA*

- Developed 2 computer vision models for a wildfire detection robot prototype, increasing accuracy by 30%
- Analyzed over 1.5 million multi-scale data and developed a model with 85% accuracy in identifying wildfires
- Co-authored a forthcoming paper on wildfire detection, detailing the literature review and research implications

### Data Analyst Intern

May 2021 – Aug 2021

*United Nations*

*Geneva, Switzerland*

- Built aggregated data pipelines using Python for 30+ sources, automating 75% of all data entry tasks in the team
- Utilized Tableau to visualize data, resulting in a 250% increase in data comprehension and decision-making
- Presented data-driven policy recommendations across 5 UN agencies, resulting in the adoption of 2 policy drafts

### Software Engineer Intern

Dec 2020 – May 2021

*Internet Society*

*Pasadena, CA*

- Built a comprehensive open library of Interplanetary Networking documentation, increasing accessibility by 50%
- Organized branches of the 300+ document-tree structure using Zotero, resulting in a 35% increase in organization
- Updated and maintained the IPNSIG website using WordPress plugins and JavaScript

## RELEVANT PROJECTS

### Skin Cancer Detection | Python, OpenCV, PyTorch, CNNs

Sep 2021 – Dec 2021

- Used a deep learning model to automatically detect anomalies or abnormalities in the skin images

### Medical Data Monitoring | Python, Matplotlib, Scikit-learn, pandas

Jan 2022 – May 2022

- Built a user-friendly interface for patients and doctors to interact with their medical data

## SKILLS

**Programming:** Python, No/SQL (Postgres, Firebase), R, Java, JavaScript, Node.js, Flask, Rest APIs

**ML Libraries:** Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, pandas, NumPy, Matplotlib, Seaborn, NLTK

**Developer Tools:** Git, Jupyter, Tableau, PowerBI, Excel, Google Cloud Platform, Azure, AWS, Docker, Apache Spark

**Strong Background:** fast-paced startups, product management, computer vision, data science, statistical analysis

**Soft Skills:** Excellent communication, team leadership, social entrepreneurship and interpersonal skills