

# Kalkidan Fekadu Chefira

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New Haven, CT 06511

## SKILLS

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- Programming language
  - Python, C/C++, Javascript, Java, R
- Operating Systems
  - Linux, Mac OS X
- Software
  - ArcGis Pro
- Databases
  - MongoDB, MySQL, PostgreSQL
- ML Frameworks
  - Pytorch, TensorFlow
- ML Models
  - SVM, CNN, RNN
- Framework and Tools
  - Git/Github, Hadoop, Spark, Jupyter notebook, Docker
- Programming Libraries
  - Earth Engine, Descartes, GDAL, Pandas

## EXPERIENCE

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### Fellow, Data Science for All

10/2021 - Present

- Selected to participate in a rigorous 17-week data science program focus on building skills in data structuring, manipulation and scientific analysis culminating in a capstone project

### Postgraduate Associate, Yale University, New Haven, CT

01/2021 - Present

- Created a dynamic Earth Engine web app that visualized biodiversity layers and helped catch errors early on; the app was showcased to key stakeholders in the North America 30x30 conservation planning
- Implemented backend workflow and unit testing for a platform that reduces complex species occurrence data and environmental layers analysis using Earth Engine and Descartes Lab libraries in Python and Javascript
- Cleaned and visualized half a million species movement data points on a map using R to create a diagram for an academic publication
- Web scraped and analysed 25 GB of data from online databases in an automatic way using Python

### Software Engineer, iCog Labs, Addis Ababa, Ethiopia

09/2019 - 12/2020

- Designed and implemented backend using flask, PostgresGIS and Docker for a platform that gives location-based recommendations on best land management practices to policy makers in Ethiopia
- Wrote and presented project proposals, delivered progress reports for clients from international research and development organizations(CIAT and ILRI)
- Trained logistic regression and image recognition CNN models using PyTorch and TensorFlow

### Learning Assistant, New York University, Shanghai, China

01/2019 - 04/2019

- Provided tutoring for students taking Computer Networks course; and led lab and recitation class

### Programming Intern, iCog Labs, Addis Ababa, Ethiopia

06/2018 - 08/2018

- Developed backend and frontend for web application with Restful API, Node js, Express js, MongoDB and other npm libraries
- Wrote unit tests to check effective performance of atomic operations within Docker API configuration pipeline

### Programming Tutor, US Embassy, Addis Ababa, Ethiopia

08/2018

### Residential Assistant, New York University, Shanghai, China

05/2017 - 09/2017

## EDUCATION

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### MS, Advanced Computing, Tsinghua University

09/2020 - 06/2022

### BS, Computer Science, New York University

09/2015 - 05/2019