

Atharva Patil

atharva.patil@berkeley.edu · atharvapatil.me · github.com/patilatharva · linkedin.com/in/atharvap4til

EDUCATION

University of California, Berkeley — *Bachelor's, Computer Science and Statistics*

AUG 2019 - MAY 2023

- **Relevant Coursework** - Data Structures, Probability for Data Science, Computer Architecture, Linear Algebra, Discrete Mathematics, Multivariable Calculus, Applications of Cloud Computing

SKILLS

- **Technical** - Python (Flask), Java, C, JavaScript (React Native), R, Flutter, HTML/CSS, SQL, Git, Scheme
- **Nontechnical** - teamwork, multicultural understanding, translation, soccer
- **Languages** - English, Japanese, Marathi, Hindi
- **Work Authorization** - Authorized in the United States through CPT; Citizen of India and Permanent Resident of Japan

WORK EXPERIENCE

United Nations — *Data Science Intern — Rome, Italy (Remote)*

FEB 2021 - PRESENT

- Developing a crop mapping solution for the Food and Agriculture Organization (FAO) to identify crop types from satellite imagery in Senegal using models based on dynamic time warping and deep learning.
- Model takes in a vegetation index time-series (Sentinel-2 NDVI) on Azure ML Studio; AUC of 0.90 with deep learning.

KPMG — *Software Engineer Intern — Tokyo, Japan*

JULY 2020 - DEC 2020

- Designed architecture, developed software and wrote tests in Python (Django) to programmatically audit financial documents as a member of the Digital Transformation (DX) team at KPMG Ignition Tokyo; details undisclosed due to NDA.

Department of Electrical Engineering and Computer Science, UC Berkeley — *Research Intern*

FEB - JUNE 2020

- Developed web scraping tools in Python (Scrapy) to scrape government, news and private company websites to measure the adoption of 'smart-city' technologies by Californian government agencies.
- Worked with Dr. Alexandre Bayen and co-authored policy brief: "The General Transit Feed Specification (GTFS) Makes Trip-Planning Easier — Especially During a Pandemic — Yet its Use by California Agencies is Uneven."

Cross-Border Next, Inc. — *Software Engineer Intern — Tokyo, Japan*

JULY - AUG 2019

- Developed a web scraper using PhantomJS to daily scrape transaction records and store them in a MySQL database.
- Worked with the CTO to integrate the crawler with the company's PHP-based (CakePHP) sales management system.

PERSONAL PROJECTS

Pandemap — *Overcrowding Prevention Location Suggestion App* — <https://github.com/tejjogani/Pandemap>

- **Won the 2020 IBM Call for Code University Edition** out of 53,000 participants and received \$10k in funding.
- A location suggestion app that recommends the least crowded places nearby using computer vision and location data.
- Tools used: TensorFlow (Keras), React Native, Python (Django), IBM Cloud, ElephantSQL.

covid19tokyo.live — *Tokyo COVID-19 Tracker* — <https://covid19tokyo.live>

- A COVID-19 dashboard for Tokyo that visualizes overall numbers, an outbreak map, cases by ward/age/gender, and more.
- Open-sourced on GitHub and **received support from Google Cloud and Mapbox**; reached 50,000 page views in a month.
- Tools used: HTML, CSS, Bootstrap, JavaScript.

LateNight — *Late-night Restaurant Recommendation App* — <https://devpost.com/software/latenight>

- A late-night restaurant recommendation app that maps dining options based on food ratings and neighborhood safety.
- Food ratings are derived from Yelp's API and safety scores were calculated by analyzing public SFPD crime records.
- Tools used: React Native, Python (Flask), SQLite.