



Associate Software Engineer

Our Mission:

[Virufy](#), a nonprofit research consortium of researchers, innovators, and scientists, has **united volunteers from 25+ countries** to develop a smartphone app for the detection of COVID-19. Initially developed as a [Stanford University COVID-19 Response Innovation Lab](#) project, Virufy's artificial intelligence (AI) COVID-19 diagnostic solution fights the pandemic through widespread, accessible, and free testing. Our team includes a dozen [One Young World](#) ambassadors, a social impact network in 198 countries whose members include Prime Ministers and Nobel Peace Laureates.

Opportunity Overview:

Our team of part-time volunteers works with machine learning, deep learning, and signal analysis for audio analysis in a medical setting. We welcome individuals with professional experience in these domains to apply. The candidate will be immersed in a collaborative environment alongside AI engineers and mentors.

Responsibilities:

- Deeply research and identify state-of-the-art ML approaches for detecting COVID from coughs.
- Train, build, and deploy AI models into production.
- Produce clean code and APIs to facilitate understanding within the team.
- Collaborate with product management and leadership to deliver on expectations.
- Build data ingest and data transformation infrastructure.
- Process and feature extract from a wide array of input data types.
- Identify transfer learning opportunities and auxiliary training datasets.
- Distill results into academic formats, e.g. research paper.

Requirements for strong candidates:

- 1-2 years of experience of CS coursework and prior internship experience.
- Passionate and committed to the Virufy mission, communicate effectively, and share learnings with the team.
- Strong Python programming experience with toolkits such as Pandas, NumPy, Librosa.
- Experience in training models with frameworks like Scikit-learn, Tensorflow, Pytorch, Keras.
- Hands-on AI programming experience working on (ideally) enterprise products.
- Experience using AI for healthcare in clinical research studies and solving real-world problems.

Time Commitment:

5-15 hours per week

To Apply:

Please fill out our [Google form](#) and feel free to reach out to join@virufy.org with any questions.