## ALEXANDROS "ALÉ" PHILIPPOS POUROULLIS

### Machine learning and software engineering enthusiast

💌 alexpouroullis123@gmail.com 📞 +27715408132 🛮 🛅 alexandros-pouroullis-a105051b6



#### **PROJECTS**

## Machine learning pipeline for type la supernova classification

Google Summer of Code evaluative task

- > Evaluative task for a Google Summer of Code open-source project hosted by the Johns Hopkins University Applied Physics Laboratory.
- > Created an end-to-end pipeline that estimated 5 different parameters using 5 individual models and aggregated the results

#### **Speech emotion recognition**

Loop Q Prize challenge A

- > Used librosa to extract spectrograms, melspectrograms, mel-frequency cepstral coefficients and global average features
- > Used a variety of data augmentations methods including SpecAugment
- > Wrote a paper on the task

#### Student marketplace platform

In progress

- > Developing a marketplace platform geared directly towards students, localized to university campuses, where students can sell, exchange, or request items
- > Creating a RESTful API in Express.js, deployed on AWS Elastic Beanstalk, using a MySQL database connected to an AWS RDS instance, and S3 for storage
- **>** Frontend being built in Next.js, using Typescript
- > Using Firebase for user authentication
- > Set up a CICD pipeline using AWS CodePipeline

## **EDUCATION**

#### **Tertiary**

**University of Cape Town BSc Computer Science and Applied Statistics** 

**#** 2022-2024

#### **Secondary School**

Selborne College

**#** 2019-2021

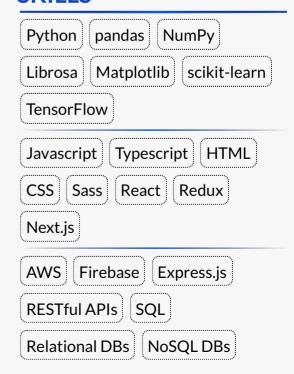
#### **COURSES**

## Mathematics for Machine **Learning Specialization**

Imperial College London

- > Linear Algebra
- > Multivariable Calculus

## SKILLS



# **WORK**

## Software developer

Elevat3d

**iii** 07/2022-Present

Part-time

- > SaaS offering a suite of services to mines, particularly related to mine blasting, using machine learning and drone photography
- > Building the interface in React using Typescript and Redux

## Software developer

Loop

**=** 09/2022-Present

Part-time

- > Startup concerned with digitalizing the taxi industry in South Africa
- > Managing all aspects regarding the technological ecosystem of the project, including database management, prototyping, software consulting, chatbots, writing scripts, etc.