# Emmanuel Byrd

London, UK • www.emmanuelbyrd.com
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*Technically astute and solutions-oriented professional with hands-on experience in web development, architecture, and AI. Tech lead with expertise in building robust products with front-end, back-end and database ownership.*

## Professional Experience

**Co-Founder & CTO |** Agave Networks, London.                    **December 2021 - present**

Agave Networks is an online B2B surplus marketplace. I have led the exploration and development of the platform.

- Completed the Innovate UK acceleration program, building the Machine Learning MVP that detects scrap objects in supplier's pictures, winning a £49,000 grant.
- Built the MVP from the ground up with GCloud, using Terraform, Go, Python, NodeJS, and Typescript.

**Web Solutions Engineer |** Adecco, at Google, London.          **July 2023 - September 2023**

Hired by Adecco, supporting Google, contributed to building an internal tool in Go, mainly performing backend development in a microservice-like architecture.

**Senior Software Developer |** 8th Light Ltd, London.            **October 2021 - July 2023**

Awarded the "Exceeded Expectations" merit on the first year of work. On-hands full-stack software consultant in greenfield products and large companies' legacy codebases, mainly in JavaScript and Go. Technical posts writer.

- Solved legacy cache system reducing load to Redis in 80% and improving service rate sevenfold.
- First developer of a greenfield Web3+Web2 content streaming product. Tech lead of the UK team. GitHub Actions, Terraform, GCloud, NextJS, NestJS.
- Fixed dangerous inconsistencies in the ledger system of a large crypto exchange.

**Senior Software Developer |** Nexu, Mexico.                     **June 2017 - August 2019**

Nexu is a digital car leasing FinTech company. Developed UI with Angular 6 and handled backend tasks with Rails.

- Built payments parser and consolidator calculating forward payments and moratory interests.
- Real-time lead prioritisation using a queue system built with Rails and Action Cable.
- Automatic custom PDF generation of legal-binding contracts.

## Education

**MSc Computer Science |** University Tecnologico de Monterrey (ITESM), Mexico.          **2019 - 2021**
**BSc Computer Science and Engineering |** University Tecnologico de Monterrey (ITESM), Mexico.     **2012 - 2017**

## Scientific Contributions

**CVPR:** Main author and speaker of the paper "ActivityNet and OSCAR: an Image Captioning model can effectively learn a Video Captioning dataset" [2021]. Python, Computer Vision, BERT

**19th MICAI:** Main author and speaker of "Exploitation of Deaths Registry in Mexico to Estimate the Total Deaths by Influenza virus: a Preparation to Estimate the Advancement of COVID-19" [2020]. Python, Scikit-learn. Github.

## Professional Development

Member of the Mexican Society of Artificial Intelligence (SMIA), 2020 - 2021

Certified Associate in Project Management, Project Management Institute (PMI), 2017 – 2022

## Other

- ETH Mexico, $7000 prize          - Ruby Gem, 34k+ downloads          - PRNG conference, Mexico 2017

## Tech Stack

JavaScript | TypeScript | React | NodeJS | Python | Go | Ruby | Rails | Terraform | GitHub CI/CD | Docker | GCloud

## UK Visa Tier-1 Global Talent Visa, no sponsorship needed