

# Emmanuel Byrd

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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

**Web Solutions Engineer** | Adecco, at Google, London.

**May 2024 - Present**

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

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

**December 2021 - May 2024**

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.

**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.

**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.

## 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**

## Noticeable Web3 project

**ETH Mexico, Mexico City**

**August 2022**

Participated in ETHMexico building [Mixdown](#) on top of the Lens Protocol (Web3/Blockchain). Our dApp won two first prizes: best audio dApp for Lens, and best use of IPFS/Filecoin, worth a total prize of \$7000 USD split evenly between the two members of our team. Used Vite, RainbowKit, Tailwind, Vercel, IPFS and crunker.

## Scientific Contributions

**CVPR:** Published paper and conference "ActivityNet and OSCAR: an Image Captioning model can effectively learn a Video Captioning dataset" [\[2021\]](#). Python, Computer Vision, BERT

**19th MICAI:** Published paper and conference "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](#).

## Other

- [CAPM](#), PMI (2017- 2022)

- [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