

# Cosmin Serdean

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## Education

BSc Computer Science and Mathematics  
University of Manchester  
1<sup>st</sup> Year: First Class (> 70%)

Sep 2019 – Jul 2022

- Algorithms and Data Structures
- Data Science
- Programming 1 & 2
- Partial Differential Equations
- Calculus
- Linear Algebra

Programming Bootcamp  
Academy Plus

May 2016 – Jul 2017

- Completed a programming bootcamp focused on low-level programming using the C programming language
- Implemented a general-purpose standard library 'stdlib' clone that included advanced functions like 'printf' and 'malloc'

## Technical Skills

- Web development: JavaScript, HTML, CSS, TypeScript, React, Redux, React Native, NextJS, NodeJS, Express, GraphQL, Electron, Python, Flask, MongoDB, MySQL
- Hybrid mobile development using Dart and Flutter
- Other: Unit and Integration Testing, C, Java, UNIX, Git, Amazon Web Services Elastic Compute and Simple Storage Service, and Google Cloud Compute Engine
- Some Machine Learning experience using Scikit Learn, Keras and PyTorch

## Other skills

- Advanced English speaker (IELTS overall band 8)
- Native Romanian speaker

## Experience

Front-end engineer, [Aggero](#) Bucharest, Romania - remote

Sep 2020 – Present

- Designed and developed a web app that helps marketing teams navigate the esports and gaming industries by providing deep audience insights and by facilitating the discovery of influencer sponsorship opportunities.
- Developed an intricate yet accessible and performant web dashboard that displays real-time data regarding a marketing campaign's performance
- Built an extensive PDF report generation system to provide clients with analytics regarding their marketing campaigns

Full-stack engineer, [University of Manchester](#) Manchester, United Kingdom

Jun 2020 – Sep 2020

- Developed a complex web app designed to help an NGO gather feedback
- Acted as a mentor for my team, as I was the only one with extensive experience using React and Express
- Deployed the application to a production server

Full-stack engineer, [Lola Tech](#) Cluj-Napoca, Romania

Jun 2017 – Sep 2018

- Participated in the team that architected and built the client-facing ticketing system of a major US-based airline
- Built complex user interfaces using React and NextJS and a GraphQL API using ExpressJS and MongoDB
- Worked in an Agile environment, using modern development practices, for instance, Continuous Delivery using Jenkins

## Projects

**pjcontrol**

- Developed with a course colleague a desktop app that allows remote control and monitoring of professional Audio-Video setups comprised of hundreds of video projectors
- Designed and developed a complex, yet intuitive user interface using ElectronJS and React
- Set up a Continuous Delivery and Code Quality Assurance system using Github Actions

**Gem, [gem.cserdean.com](#)**

- Designed, built and deployed a service for managing bookmarks
- The service features a web app built with React and GraphQL, a desktop app built with ElectronJS and mobile app built with Flutter
- Managed the required Amazon Web Services infrastructure

**Machine Learning experiments**

- Developed a long short term memory (LSTM) neural network using PyTorch and trained it to predict the sentiment of sentences from the Rotten Tomatoes movie reviews dataset
- Developed a Variational Auto-encoder that upscales the resolution of images from the MNIST Handwritten Digit Database