Daniel Moran

Computing Student

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Profile

A self driven recently graduated computer science student with a passion for software development as well as a general interest in modern technologies.

After finishing my degree with a First Class Honours,, I am now searching for a role where I can use my skills to work on interesting projects. Finished and in progress projects can be viewed on my github and my personal website.

Skills

Core		Frameworks	Tools
Java	SQL	Node.js	Git
JavaScript	HTML	React	AWS
Python	CSS	Symfony	Google Cloud
PHP		Bootstrap	

Education

Technological University Dublin / BSc (Honours) in Computing
September 2016 - May 2020

Graduated with First Class Honours (GPA: 3.63)

Colaiste Íde / Computer & Network Maintenance
September 2015 - May 2016

Graduated with a Distinction

Beneavin De La Salle / Leaving Certificate
September 2009 - May 2015

Graduated with 285 CAO points

Projects

All of my projects are viewable at my personal website **danielmoran.ie** but I have also listed some below.

Electronic Dispatch, Patrol and Resource System for An Garda Síochána
React, Node.js, JavaScript, MySQL, JWT, Various APIs

- Final year project built to explore ways of dealing with inefficiencies within An Garda Síochána.
- A React front-end and a Node.js back-end containing a RESTful API.
- Gives patrolling gardaí instant access to all known information about ongoing crimes in their division which is updated in real time in an easy to understand google maps interface.
- Allows dispatchers to input new crimes into the system, update ongoing crimes with newer information as well as notify nearby gardaí of the situation.
- Crime data is stored for statistical views and later data analysis.

- Responsive mobile and desktop friendly User Interface.

DailySale
Node.js, MySQL, Bootstrap 4, AWS

- A buy and sell web application.
- Users may create adverts and upload images to the advert page.
- Admin dashboard with newsletter sending ability.
- Comment/reviews/rating systems.
- AWS integration.
- Stripe payment processing.
- E-receipts delivered by email upon payment.

Manufacturing Line Fault Detection
Python 3.7

- A computer vision project that inspects images of o-rings on a manufacturing line and determines if they have any defects.
- Uses only Python. Everything is done manually without the use of libraries such as open-cv.
- Techniques include dynamic thresholding, binary morphology, semantic segmentation and image classification.

Doughnut shop point-of-sale application
Node.js, MySQL, JQueryMobile

- A web-app designed for staff use at a doughnut shop.
- Point of sale system.
- Inventory management.
- Manager panel with staff performance.

Infection transmission simulator
C, Pthread library, JavaScript, terra.js, chart.js

- Uses a cellular automata approach at simulating the transmission of an infection in a population.
- Project is made up of two applications. A multithreaded C program to run these simulations and gather the data needed, and a JavaScript application that takes this data after the simulation has finished, and displays it to the user, as well as real time statistics on the simulation's population.
- Uses the pthread library for multithreading, terra.js to format and display our cellular automaton, and chart.js for real time statistics.

Python chatting application
Python, socket library

- CLI based chat program built using sockets.
- Message verification using hashes.
- Server-Client architecture.
- Custom messaging protocol.
- 11 chat commands.

TU Dublin Student-Union poll application
PHP, Symfony 4 framework, Doctrine ORM

- A Symfony 4 application allowing students to have their voice heard.
- Users can support propositions / vote on polls / see results once polls end.
- MVC architecture.
- Admin CRUD.

Other projects have also been completed that are not shown here, in areas such as mobile development, game development, data analysis, text mining and applied human language technologies. Most of my projects are public and available on my github.

Experience

Geodis Ireland / IT Work Experience
February 2016 - April 2016

- Troubleshot and provided technical support to staff.
- Resolved network issues.
- Maintained devices and network.

C+C Security Ltd / Front of House
March 2019 - Present

- Work primarily within the four private member clubs at 3arena.
- Ensure smooth and safe running of events.
- Ingress/egress control of the venues.
- Deal with customer complaints and queries.
- Also copyright enforcement for exclusive press cinema screening events.

Hobbies & Interests

Music • Podcasts • Staying up to date on new technologies • Fitness

References

Philip Boyle - Supervisor - C&C Security - 089 700 0032