Matthew henry

Integrated Computer Science Student.

Trinity College Dublin

Matthew Henry

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GitHub
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Personal Website

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Skills

I am proficient in a number of different programming languages, including Java, Ruby, Python and the MEVN web development stack. As both a student and developer I have taken the lead role in a number of projects. Outside of academics I'm an avid rock climber and love to travel both within and without Ireland.

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Experience

EVIABI/ Founder

September 2020 - Present

Founded in September 2020, after roughly two years of development while either working full time or being a full time student, EVIABI provides electronic voting solutions for small to medium student organisations, focused on security, management and usability at any scale.

Google/ Software Engineering Intern

June 2020 - September 2020

I was a member of the ISE/DevRel team working on improving web security in open source projects, primarily handling PHP and Javascript my responsibilities revolve around creating a pipeline for approaching these projects and implementing cutting edge web security practices to make the web a safer place for users and a more secure place for developers.

Telnyx / Software Engineering Contractor

September 2019 - April 2020

I worked as part of the Developer experience team in Telnyx. My responsibilities relate primarily to designing and building example projects using Telnyx's SDKs, APIs and other services in order to provide good quality examples for customers to use as references for their own software.

Telnyx / Software Engineering Intern

May 2019 - August 2019

I worked as part of an international team using a number of languages (Python, Ruby, Node, goLang) to develop SDKs and internal tools to improve both internal and external developer experiences. I also had a hand in a machine learning project which is used to forecast earnings for the company. I learned a lot from the teams at Telnyx and take pride in my contributions there.

Cora Systems / Software Engineering Intern
November 2018 - February 2019

I previously worked as a Junior Intern developer running a team tasked with refactoring a codebase written in a combination of C#, VB and javascript. My role was as the primary point of contact between the small development team and the core managers within Cora systems.

Cora Systems / QA|Software Engineer
June 2016 - August 2018

I worked full time during the summer months as a QA and software engineer in Cora Systems. I tested a web based project management system in an agile business environment. I took on R&D projects during this time with the intention of developing and introducing internal tools to improve some pipelines in the company.

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Education

Trinity College Dublin/ Integrated Computer Science
September 2017 - Current

I am currently a student of the Integrated Computer Science course in Trinity college. I have just finished my 3nd year in college with the hopes of graduating with a Bachelor's degree in 2022.

1st year (2017 - 2018) - 1.1 honors

2nd year (2018 - 2019) - 2.1 honors

3rd year (2019 - 2020) - 1.1 honors

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Projects

E-Voting solutions

As part of a team consisting of another two students I have worked on an E-Voting solution, written in Nodejs and Vuejs providing the Trinity College student union and associated clubs with a high quality product to improve student engagement as well as to advance my own skills as a developer. This system was recently used for the class rep elections in trinity college across 4 separate schools and 30+ courses. Further usage has been seen in Faculty assemblies across the college.

Microsoft Climate Control system

As part of my 3rd year Software engineering project I lead a team of 2nd and 3rd year students in constructing an Office Climate control system for Microsoft and their new Lansdowne road office. We used React, Typescript and Node to create the frontend and Node, Azure and python to manage the backend architecture as well as raspberry pi's to provide temperature telemetry. Source code is available here

GoLang Programming

In an exercise in personal development I have worked on a simple blog that incorporates a goLang web server backend. This backend opens out to a simple API which is consumed by a set of vue.js components. The entire exercise is an attempt to learn and understand the modern web development ecosystem as well as to learn useful Language

skills. Find it <u>here.</u>

Achievements and Volunteering

SCSS Convenor

Recently elected as the Trinity Students Union representative on behalf of the student body of the SCSS department. A role that involves leasing with the administrative body of SCSS and representing all union members and students of SCSS.
(2020)

Computer Science Class rep

I was one of two senior fresh class reps for the integrated computer science class in Trinity College Dublin. This position involves acting as a representative between the class body and the student union.
(2018-2020)

CTY, Ireland

I attended this course over 3 years, studying for 3 weeks each summer firstly on Computer Gaming and design, Secondly Cutting Edge science with a focus on Quantum Mechanics and in my final year studied Behavioural Psychology. The courses involved a college-like atmosphere, with a focus on personally driven study and group based projects. It taught me a lot of skills which I have come to rely on.

Coder Dojo mentor

I mentored and attended 3 separate coder dojos in Mayo, assisting as head mentor of the advanced classes in two. We experimented with micro controllers, app development and general programming practice. I was a mentor and founder in the Trinity College CoderDojo.