

Aidan Laurence McDonagh

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EXPERIENCE

UNIPART DIGITAL | SOFTWARE ENGINEER

Nov 2020 – Present | Cambridge, Hertfordshire

- Implementation of a faster and more efficient web-based barcode scanner for warehouse use
- Increased code coverage for multiple projects by up to 98%
- Increased speed of old tests by 23%
- Reduced production bundle code size by over 25% using a number of methods. Including, but not limited to, converting legacy code such as Redux code into Redux Toolkit and reducing node modules size
- Maintaining multiple repos, keeping packages updated and secure by fixing vulnerabilities, and code analysis to prevent supply chain attacks etc.
- Creation of CI smoke tests (e2e) for checking apps are production ready
- Ansible script creation to puppeteer multiple systems throughout the CI pipeline in Jenkins whilst increasing Ansible script efficiency
- Race condition identification, mitigation and testing
- Migration of new code bundles onto live production servers
- Creation and maintenance of a Full-Stack Security SPA for Device Authorisation and Authentication using Django (DRF), PyJWT (JSON Web Tokens), PostgreSQL, React, Webpack, Docker-Compose, Ansible & Jenkins.

KHIPU NETWORKS LTD. | FULL-STACK DEVOPS ENGINEER

Jan 2019 - Nov 2020 | Fleet, Hampshire

- App Security as a Penetration Tester, Packages Maintenance and Attack Mitigation
- Project self management: customer relations, sprint planning, App Development and Security executive reporting, and time management
- Static website creation (including captive portals, websites and logins) using Bootstrap UI, Gulp, JavaScript, CSS3 and HTML5
- Real-time Monitoring Software for Switches & Routers in order to prevent downtime and malicious attacks as a Full-Stack SPA (Single Page App) using Angular, Node.js (Fastify), Socket.io (Websockets)
- Built a script to analyse data from Vulnerability Scanners Outputs using Python
- Creation of a Technical Engineers App which automatically generates .docx/.pdf documents with template data insertion with Deno/TypeScript
- Engineered an Internal Staff App using iOS/Swift/xCode for heat mapping, room calendar bookings, notifications and physical RFID/NFC lock entry

PROJECTS

LAURA MCDONAGH ILLUSTRATIONS | NODEJS, BOOTSTRAP, GULP, SHARP, PUG

Jul 2020 | lauramcdonagh.com

WESTPORT CAR PARKS | NODEJS, BOOTSTRAP, GULP, SHARP, PUG

Jul 2018 | westportcarparks.com

EDUCATION

THE UNIVERSITY OF PORTSMOUTH

BACHELOR OF SCIENCE (HONS.) SOFTWARE ENGINEERING

Classification: 2:1

SKILLS

PROGRAMMING

Over 150,000 lines each:

Python/Django • TypeScript/Node.js/Deno • JavaScript/ReactJS/Angular

Over 10000 lines each:

Bash • Java • Haskell

Familiar:

C/C++ • Ruby • PowerShell

VCS & BUILD TOOLS

Git • Jenkins • Ansible •

Docker • Docker-Compose

DATABASES & DB TOOLS

MySQL • PostgreSQL • PostGIS •

MongoDB • Mongoose

CERTIFICATES

Sololearn

C++ • C# • C • Python • Java • HTML5 • CSS3 • JS • JQuery • Swift • PHP • SQL • Ruby • Angular & Nest.js Stack Course

OSCP

Offensive Security Certified Professional - Course taken, Exam Booked

UNIVERSITY MODULES

Computer Networks
Database Design and Development
Discrete Mathematics
Computer Architecture
Web-Script Programming
Discrete and Functional Programming
Getting Usability into Development Environments
Data Structures and Algorithms
Advanced Programming Concepts
Advanced Software Engineering
System Security
Security and Cryptography
Reliable and Secure Systems
Distributed Mobile Systems
Dissertation: HandyMan - A Bartenders Encyclopedic Application

EXTRA CURRICULAR

Project Euler's Math Problems
LeetCode (Algorithms)
HackTheBox (Penetration Testing)
TryHackMe (Penetration Testing)
IBM's Quantum Experience
IBM's Security Course
IBM's Blockchain Course