

Aidan Laurence McDonagh

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EXPERIENCE

SKY | SOFTWARE ENGINEER (SECURITY)

Feb 2022 – Present | Brick Lane, London

- Static Security Analysis Testing of current projects
- Project Package maintenance, updates and security migration plans designed
- Deployments with Blue-Green Deployments for production code

UNIPART DIGITAL | SOFTWARE ENGINEER (SECURITY)

Nov 2020 – Dec 2021 | 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% and speed of old tests by 23%
- Reduced production bundle code size by over 25%
- Maintaining multiple repos, keeping packages updated and secure by fixing vulnerabilities, and code analysis to prevent supply chain attacks etc.
- Ansible script creation to puppeteer multiple systems throughout the CI pipeline in Jenkins whilst increasing Ansible script efficiency
- Race condition identification, mitigation, and testing
- 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. | DEVSECOPS ENGINEER (FULL-STACK)

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 with executive reporting, and time management
- Real-time Monitoring System for Switches & Routers in order to prevent downtime and malicious attacks as a Full-Stack Event/Message Driven 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/React/Angular

Over 10000 lines each:

Bash • Java • Haskell

VCS & BUILD TOOLS

Git • Gitlab (+ CI) • Jenkins • Ansible • Docker/Docker-Compose • Webpack • Gulp • Grunt

DATABASES & DB TOOLS

MySQL • PostgreSQL • PostGIS • GraphQL • MongoDB • Redis • Firebase

OTHER TOOLS

Jira • Confluence

CERTIFICATES

Sololearn

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

Offensive Security

OSCP PWK 200 - Course taken, Exam Booked

CompTIA

PenTest+ - Achieved on 14th May 2022
Security+ - Achieved on 26th June 2022

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/HackerRank (Algorithms)
HackTheBox & TryHackMe (Penetration Testing)
IBM's Quantum Experience
IBM's Security Course
IBM's Blockchain Course