# SEAN NICHOLLS

MEAN STACK + MOBILE SOFTWARE DEVELOPER

# ☐ FXPFRTISE

## Cybersecurity & Forensic Computing

Cryptography, Ethnical Hacking, Pen Testing & Forensic Computing.

## Internet of Things (IOT)

Bespoke Hardware and Softare Development on multiple platforms: ARM, ES-P8266, ESP32, Raspberry Pi, Arduino, AVR, PIC and Cloud IOT Development with MEAN Stack on Amazon AWS, Microsoft Azure. Bluetooth 4.0, BLE.

## Full-Stack Web Development

MEAN (Mongo, Express, Angular, Node) with frameworks such as Bootstrap, React, ¡Query and build tools such as Gulp, Bower and LESS/SASS.

#### Full-Stack Mobile App Development

Android - Java, iOS - Objective-C, and Hybrid - HTML5, CSS & Javascript with Cordova and Ionic.

## **FXPERIENCE**

Present Sep 2017

#### **IOT** Engineer

#### Sean Nicholls Consulting LTD

Pelfast, Northern Ireland Hardware and Software development for IoT and embedded devices with Machine Learning (AI), OpenCV and Sigfox/LoRa communications.

Sep 2017 Jul 2016

## Senior Developer (Backend)

Oublin, Ireland

Wia is a Cloud Platform for Internet of Things (IOT). As lead engineer, I was responsible for developing the back-end with Node and SQL and worked on various parts of the public API back-end. My role also included participating in providing professional services (consulting and development) for clients to develop custom hardware and software as needed.

Apr 2017 Mar 2017

## Senior Developer (Fullstack + Mobile)

Oublin, Ireland

Verivoo is a new way to discover and share your next memorable dining and travel experiences, with verified reviews and smart recommendations. I was responsible for the development of back end API using Nodejs and MEAN stack alongside lonic cross platform mobile apps.

Apr 2017 Oct 2015

#### Director

# TOG Hackerspace (DAC)

♥ Dublin, Ireland

TOG is a hackerspace based in Dublin City Centre. It is a shared space where members can have a place to be creative and work on their projects in an environment that is both inspiring and supportive of both new and old technologies. Duties as a member of the board include ensuring the day-to-day running of the organisation, ensuring that finances are managed wisely, and that the objectives of the organisation are met.

Feb 2017 Sep 2016

# Senior Node Developer

#### PSI Mobile

Oublin, Ireland

PSI offers a Mobile Enterprise Solution Platform (MEAP) for Utility, Energy, Telecommunications and Government sectors in over 40 countries worldwide. Responsibilities included Architecting and engineering a cloud storage API for mobile devices, forking the MongoDB native libraries to provide functionality such as document versioning, documenting and making recommendations to improve productivity and workflow from implementing Continuous Integration to adopting an appropriate testing strategy and building Microservices using the MEAN stack and Hapijs.



#### CONTACT

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## **SKILLS**

Internet of Things (IOT) Cybersecurity Computer Forensics

MongoDB Express Angular Node

Android (Java) iOS (Objective-C) Cordova (HTML/CSS)

Git Git-Flow branching

Agile Software Development Lifecycle

IEC 62304 Medical Device Software Development Lifecycle



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# **EXPERIENCE**

Sep 2016 | Feb 2016

#### Senior Android Developer

BlueBridge Technologies

Oublin, Ireland

Developing FDA regulated Mobile Medical Apps (MMA) for the healthcare/medical industry while conforming to IEC 62304 International Standard for the software development of medical devices whilst in an Agile development environment. Working on the native Android app, I worked on the Bluetooth 4.0 / BLE communication protocol and high performance graphing of blood glucose values, and various UX/UI tasks as needed.

Apr 2015

#### Senior Software Engineer

RedHat

Waterford, Ireland

Leading the development of a Mobile Medical App (MMA) for Baystate Health on iOS and Android with Cordova and Ionic framework. Utilizing custom security plugins built in native Android (Java) and iOS (Objective-C) to meet with strict security requirements, in addition to a back-end HIPPA-Compliant API built using the MEAN stack. Participation in code reviews, mentoring junior developers, and architecture design while communicating directly with client to manage expectations to ensure that the project met strict deadlines.

Jul 2014 | Jan 2013

#### Chief Technology Officer

Hypercube

San Francisco, USA

As chief technical decision maker I was responsible for the full development stack, engineering research and development. We designed and built amazing things at Hypercube, from forking and building upon large Open Source projects such as Google Chrome, Android and Node.js to researching and developing full life-cycle mobile development systems (Android, iOS) with custom back-end and API with MEAN Stack and custom authentication models, we really pushed the envelope of what was possible.

Jan 2013 | Aug 2011

#### Chief Technology Officer

Fandom

Oublin, Ireland

Developed an end-to-end solution including server-side Social Media Aggregation delivered to Mobile (iOS) via JSON package. MongoDB, Express and Node stack including developing a Twitter streaming API library written for Node.



#### **EDUCATION**

present | 2017

#### Applied Cybersecurity

Queen's University Belfast

Pelfast, United Kingdom

Modules: Network Security & Monitoring, Ethical & Legal Issues in Cyber Security, Software Assurance, Computer Forensics, Malware Applied Cryptography.

present | 2017

#### Certified Ethical Hacker (CEH)

**EC-Council** 

Online

Self-study course in computer and network security.

2010 | 2005

#### Bachelor of Science with Honours in Software Systems

National College of Ireland

Oublin, Ireland

Second-class honours, upper division (2:1)

2005

## Certificate in Computer Programming

Roslyn Park College

Oublin, Ireland

CITXX, NFQ Level 5