Hugh Neale

Entrepreneur

Hugh Neale

www.hughneale.com

mail@hughneale.com

PROFESIONAL PROFILE

Dedicated to building outstanding products and or solutions with professionalism and ingenuity. Always open and receptive to new and emerging technologies.

EMPLOYMENT

Senior Computer Security Expert
HMG, Full-Time

Jan 2012 - Present

Large-scale platform development and comprehensive computer security consultancy. I managed several Big-Data related projects which encompassed; MongoDB, ElasticSearch, Titan, Hadoop and Storm within their technology stack. These technologies were leveraged to provide analytical insight and linking layers on top of millions of documents in real-time.

Principle Software Engineer
OcastaLabs, Full-Time

Jun 2010 - Nov 2011

Ocasta Labs Ltd is a new and forward-thinking software design company delivering new ideas and systems to make companies more productive and appealing to their customer base.

My responsibilities involve front-end design and development with CouchDB. Ensuring compatibility on mobile platforms including; iOS, RIM, Nokia.

Director & Founder
Mint Panel, Full-Time

Jul 2007 - Dec 2011

I designed and programmed Mint Panel to tackle a growing problem of complexities within web based control panels. Mint Panel simplifies and streamlines the deployment of game, web and voice servers. Mint Panel incorporates a range of complex and exciting new technologies to deliver a robust, secure, scalable and performance focused platform.

My responsibilities include managing and overseeing the development and marketing of our core product. I took a hands on approach in the development of the software platform focusing on the JAVA and C++ side of the application.

TECHNICAL SKILLS

Big Data, Cloud Analytics & Processing

CouchDB, MongoDB, ElasticSearch, Hadoop

A wealth of experience and exposure to Big-Data and Cloud Analytics. I have worked on a number of projects encompassing a multitude of different software platforms and services.

Front-end Design

Web/UI Design, XHTML, CSS, JavaScript

Experienced with a range of Design and Development tools, from the Adobe Creative Suite to MacRabbits Espresso. Full understanding of HTML5 and CSS 3.0. Including experience with user interface planning and implementation. I completely re-designed the mobile web-user interface for Virgin Media which is now being widely adopted through their range of new online services. These designs were also used in promotional materials including advertising for Nokia and Virgin respectively, with great success.

Development

JAVA (+JNI), C, C++

Exceptional understanding of JAVA with long term experience in C++ and JAVA's JNI. I have developed a wide array of applications and services in JAVA including web servers and distributed systems. On the C++ side I have primarily focused on system specific programming with TCP/IP, including libraries such as PCAP. I primarily focused on networking. I have had experience with Shell-code and Assembly and actively engage in the pen-testing community.

Web Development

Python, PHP, Ruby

More than 10 years experience with web based programming languages. I have also been involved in System Architectures and problem solving for complex solutions for contracts over 1 Million GBP. Experience with working in a team and managing a small development team of 15 worldwide.

Platforms

Nix, Virtual (VMWare, XEN, Citrix), Mobile (RIM, iOS, Nokia)

Expert knowledge in Linux systems administration including a strong understanding of clustering; encompassing storage, databases and web servers. Strong understanding of virtual environments managing over 100 VMs including HA, DRS and Storage solutions.

EDUCATION

University of East Anglia

BSc Computer Science, 2nd class division 1 - 2010

My third year project focused on a scalable distributed attack platform. This utilised distributed computing to interrogate an external/internal infrastructure. Perform a targeted attack and then a deep analysis of the network, stealthily analysing and reporting on network/system activity. The project used JAVA to form a distributed platform using the Metasploit Framework in conjunction with JRuby to distribute commands. The reconnaissance side used C++ to sniff and gather intelligence which was then embedded into images (steganography) and then uploaded to social networking sites. Password cracking was also used to help break passwords gathered from compromised systems for which I wrote a distributed version of Rainbow tables in JAVA. This JAVA Wrapper for Metasploit, known as JSploit can be downloaded from Google Code.

2012 PORTFOLIO

RestfulWHOIS

ResfulWHOIS is an online service that normalises WHOIS records (including; addresses, phone numbers, fax etc) and exposes them through a RESTFul API. Paying customers gain access to over 100 million WHOIS records stored within the system. The system also holds; DNS, GEO and open source malware reports for any given domain.

UptimeFu

UptimeFu is an application created for monitoring and alerting on the availability of websites and servers via SMS, Twitter and/or Email. At it's hight UptimeFu was processing ~6 million events a day.

2010 PORTFOLIO
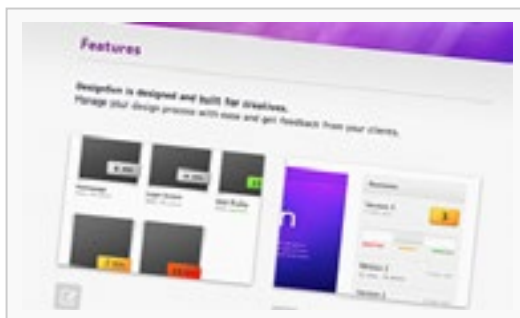
Design SVN

DesignSvn is an application created for designers and graphic artists to easily share their concepts and refer back to older revisions. I wrote a distributed backend to perform image processing and Amazon S3 File Management for the project.

NetShark

NetShark is a Scalable Distributed Attack Platform. NetShark was created out of my personal passion for network security which bloomed from my third year project for which I received a first. NetShark utilises the Metasploit Framework to interrogate and attack vulnerable networks. It also featured a fully functional distributed Rainbow Tables password cracking utility supporting; SHA-1, MD5 and NTLM. Attacks were fully logged and reports could be generated.

2012 PORTFOLIO
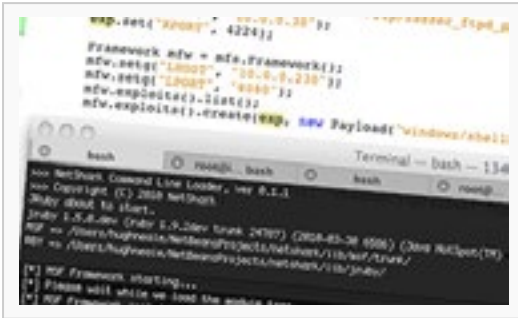
JSploit

Open source JAVA Wrapper for the Metasploit Framework. Allows users experienced with JAVA to harness the power of the Metasploit framework. The JAVA Package itself mimics that of the MSF making implementation easy for those familiar with the MSF.

2007 PORTFOLIO

Mint Panel

Mint Panel is a simple and easy to use online hosting control panel that manages and automates web, voice and game servers. It is aimed at small or large web hosting, game or voice companies looking to deliver a whole host of features to their clients. Mint Panel is a pioneering innovator of the all-in-one control panel delivering great features which are easy to use.