

# DAVID RAND

(Contact details redacted for web publishing.)

Technology leader with more than 20 years of experience including information security management, software development management, software development, and technology support. United States citizen and permanent United Kingdom resident, recently relocated from England to Northern Ireland.

## EXPERIENCE

**MARCH 2019 – PRESENT**

**OWNER, COMPUTER HELP NORTHERN IRELAND**

Run sole proprietorship providing computer, networking, and information security services across County Down: Establish a company image and marketing programme; troubleshoot, repair, and upgrade PCs and networks; respond to information security incidents; manage company finances.

**AUGUST 2016 – NOVEMBER 2018**

**INFORMATION SECURITY MANAGER, PROTOLABS**

Establish and lead the global Enterprise Security team: Partner with IT to implement security policies (segmentation, firewalls, DLP, IAM, patching, IDS/IPS, email filters, proxy servers); implement 24x7 security monitoring via a MSSP; develop the global Incident Response Plan and leading the Incident Response Team; conduct vulnerability scans, threat analyses, and risk assessments; develop and deliver security awareness training (anti-phishing, OWASP Top 10, general InfoSec); manage security compliance (NIST Cybersecurity Framework, PCI DSS, GDPR, Cyber Essentials); and co-lead cybersecurity table-top crisis simulations to exercise the global crisis plan.

**JANUARY 2013 – AUGUST 2016**

**SOFTWARE DEVELOPMENT MANAGER, PROTOLABS**

Recruit and lead a very successful team of software developers located in England, USA, Finland, and Japan; manage software projects in the role of Scrum Master; design, build, and maintain applications and websites; write ad-hoc SQL queries to gather data; investigate and troubleshoot software issues; mentor team members; manage enterprise security and compliance for all global business locations.

**JULY 2006 – JANUARY 2013**

**SOFTWARE DEVELOPER / SENIOR SOFTWARE DEVELOPER, PROTOLABS**

Develop web applications, using C# .Net and VBScript, built upon SQL Server databases and SOAP web services and incorporating HTML, JavaScript, and CSS; implement card payment system for customer portal website and manage PCI DSS compliance globally; mentor and share domain knowledge with other developers; provide application development support.

**SEPTEMBER 2001 – JULY 2006**

**TECHNOLOGY COORDINATOR, ODYSSEY ACADEMY**

Maintain all computer hardware, software, and network, including Windows Servers and desktop PCs; manage Active Directory, Group Policy, and DNS; manage technology budget and write grant applications; build and maintain database-driven web applications and public website.

**JUNE 1995 – JUNE 2001**

**SOFTWARE DEVELOPER, FIREPOND**

Build customer applications using Firepond Application Suite (FAS), a Java-based app framework; develop the FAS Reporting module; build prototype applications using HTML and object-oriented JavaScript; build the company's first public website and database-driven intranet applications.

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## EDUCATION

OCTOBER 2018

**MSC**, UNIVERSITY OF OXFORD

Master of Science, with distinction, in Software and Systems Security. Modules included Software Development Management, Security Principles, Design for Security, Agile Methods, Forensics, Agile Engineering Practices, Security & Incident Management, Security Risk Analysis and Management, People and Security, and Network Security. Project and dissertation topic: *Deploying Low-Interaction Honeypots in a Corporate Enterprise Network*.

MARCH–SEPTEMBER 2013

**MANAGEMENT TRAINING**, ACAS

Management training provided by Protolabs included the following modules delivered by ACAS: Engaging and Motivating Employees, Having Difficult Conversations, and Managing Within the Law.

DECEMBER 1995

**BS**, MINNESOTA STATE UNIVERSITY, MANKATO

Bachelor of Science, cum laude, majoring in English and emphasising technical writing, and a minor in microcomputers. Included one year of chemistry and one year of biology. My senior project included developing the Computer Science Department's first website.

## PROFICIENCIES

- Analytical thinker and fast learner
- Excellent communicator
- Exceptional diagnostician; skilled in finding root causes of complex issues
- Confident leader and manager; experienced handling difficult conversations
- Proactive collaborator; set and work toward multiple goals to complete projects

## SKILLS

- Security risk analysis
- Incident response planning and execution
- Compliance management (NIST CSF, PCI DSS, GDPR, and Cyber Essentials)
- Security event monitoring and triage
- Security awareness programme development
- Vulnerability scanning and remediation
- Team recruitment and management
- Budget proposal development
- Agile project management (Scrum Master)
- Web application development using C#, JavaScript, VBScript, Java, PHP, and Perl
- Web server configuration and management
- Firewall and load balancer configuration
- SQL Server and MySQL administration
- Relational database design and TSQL queries
- MS Windows, Active Directory, and Group Policy support; limited Linux and MacOS