

# DAVID DUKE ESSEL

**Contact:** 38 Goodman Crescent, Maple, Ontario, L6A 1E8 | **Phone:** +1 (437) 365-0117 |

**Email:** [esselduke@gmail.com](mailto:esselduke@gmail.com) | **LinkedIn:** [www.linkedin.com/in/david-duke-essel](https://www.linkedin.com/in/david-duke-essel) |

**Portfolio:** [daviddukeesselportfolioupdated.netlify.app/](https://daviddukeesselportfolioupdated.netlify.app/)

---

## PROFESSIONAL SUMMARY

Results-driven Cybersecurity Analyst and Full-Stack Developer with extensive experience in threat detection, vulnerability management, and secure application development. Proven track record of implementing robust security frameworks while building high-performance web solutions using modern technologies. Combines deep technical expertise with business acumen to deliver measurable security improvements and exceptional user experiences. Adept at translating complex security requirements into practical solutions that align with organizational objectives and regulatory compliance standards.

---

## PROFESSIONAL EXPERIENCE

### WORLD WIRELESS SOLUTIONS INC.

#### Cyber Security Analyst

*July 2024 - Present | Ontario, Canada*

- Monitor and analyze network traffic using Darktrace Threat Visualizer, reducing false positives by 42% through AI-driven detection calibration
- Implement and administer secure authentication systems resulting in zero security breaches since deployment
- Lead Identity & Access Management (IAM) initiatives, streamlining user provisioning processes and reducing access review cycles by 35%
- Conduct comprehensive IT audits and security assessments, achieving 100% regulatory compliance across all business units
- Develop automated security monitoring scripts using PowerShell and Bash, saving 15+ hours weekly in manual monitoring tasks
- Successfully investigated and remediated 28 security incidents with complete root cause analysis and stakeholder reporting
- Collaborate with cross-functional teams to integrate cybersecurity frameworks into cloud environments, enhancing overall security posture

**IATEK**

## **Cybersecurity Engineer & Full-Stack Web Developer**

*July 2022 - Present / Toronto, Ontario, Canada*

- Designed and implemented IAM infrastructure that reduced unauthorized access attempts by 67% while ensuring regulatory compliance
- Developed comprehensive security metrics dashboard using Excel with Macros and VBScript, providing real-time visibility into security posture
- Built responsive web applications using React.js that increased client user engagement by 40% and reduced bounce rates by 25%
- Engineered secure backend systems with Node.js and Express.js, processing over 10,000 daily transactions with 99.99% uptime
- Optimized PostgreSQL database performance, reducing query response times by 60% and improving application responsiveness
- Implemented CI/CD pipelines using Git/GitHub, reducing deployment times from days to hours and enhancing team collaboration
- Led security awareness training for development teams, resulting in 78% fewer security vulnerabilities in code submissions

## **LESSEK CONTRACTORS & SUPPLIERS LTD**

### **Cybersecurity Engineer & Full-Stack Web Developer**

*August 2019 - May 2022 / Greater Accra Region, Ghana*

- Established comprehensive IAM governance framework, achieving regulatory compliance 2 months ahead of deadline
- Created automated compliance reporting system that reduced manual report generation time from 40 hours to 4 hours monthly
- Developed responsive web applications that increased mobile user engagement by 65% and expanded client reach
- Implemented modern UI components with Bootstrap, Flexbox, and Grid, reducing page load times by 45%
- Led integration of security-by-design principles into development workflows, reducing post-deployment security issues by 53%
- Mentored junior developers in secure coding practices, elevating team performance and code quality standards

## **ANT CYBER ENGINEERING LIMITED**

### **Frontend Developer**

*March 2017 - April 2019 / Greater Accra Region, Ghana*

- Redesigned frontend components resulting in 30% faster page loads and improved user experience scores
- Resolved over 350 technical support tickets with 97% customer satisfaction rating
- Implemented Active Directory best practices, reducing account management issues by 45%

- Automated system patching processes, achieving 99% compliance with security update requirements
  - Collaborated with security teams to implement defense-in-depth strategies across network infrastructure
- 

## EDUCATION

### TORONTO SCHOOL OF MANAGEMENT

#### **Diploma in Computer Systems Networking and Telecommunications**

*September 2023 - August 2024*

- Graduated with Honors (GPA: 3.8/4.0)
- Specialized in Network Security and Cloud Infrastructure

### ACCRA TECHNICAL UNIVERSITY

#### **Bachelor of Technology in Computer Science**

*September 2016 - November 2021*

- Graduated with First Class Honors
  - Thesis: "Implementation of Secure Authentication Protocols in Web Applications"
  - Course Focus: Information Security, Software Development, Database Management
- 

## CERTIFICATIONS

- CompTIA Security+ (CompTIA, Oct 2024)
- Certificate in Cyber Security (Toronto School of Management, Sept 2024)
- Endpoint Security (Cisco, Apr 2024)
- Multicloud Network Associate (Aviatrix, Apr 2024 - Apr 2027)
- Network Defense (Cisco, Apr 2024)
- Threat Visualizer Part 1 - Familiarization (Darktrace, Apr 2024)
- Ethical Hacker (Cisco, Mar 2024)
- Junior Cybersecurity Analyst Career Path (Cisco, Mar 2024)
- Verified International Academic Qualifications (World Education Services, Dec 2023)
- Network Addressing and Basic Troubleshooting (Cisco, Oct 2023)
- Network Support and Security (Cisco, Oct 2023)
- Network Technician Career Path (Cisco, Oct 2023)
- Networking Basics (Cisco, Oct 2023)
- Networking Devices and Initial Configuration (Cisco, Oct 2023)
- Build Your Own Chatbot - Level 1 (IBM, Jan 2020)

- Threat Visualizer Administration (Darktrace)
  - Threat Visualizer Part 2 Investigation (Darktrace)
- 

## TECHNICAL SKILLS

- **Security Tools:** Darktrace Threat Visualizer, IAM Systems, Endpoint Security Solutions, Vulnerability Scanners, SIEM Platforms
  - **Programming:** JavaScript, React.js, Node.js, Express.js, jQuery, HTML/CSS, JSON, RESTful APIs
  - **Databases:** SQL, PostgreSQL, MongoDB, Database Optimization, Query Performance Tuning
  - **Scripting:** PowerShell, Bash, VBScript, Excel Macros, Python for Security Automation
  - **Version Control:** Git, GitHub, CI/CD Pipelines, Collaborative Development Workflows
  - **UI Frameworks:** Bootstrap, Flexbox, Grid, Material UI, Responsive Design Principles
  - **Operating Systems:** Windows, macOS, Linux (Ubuntu, CentOS), Server Administration
  - **Networking:** LAN/WAN Configuration, VPN Setup, Firewall Management, Network Security Monitoring
  - **Cloud Computing:** AWS, Azure, Multi-cloud Environments, Cloud Security Architecture
- 

## KEY PROJECTS

### ENTERPRISE IAM SYSTEM IMPLEMENTATION

*IATEK / 2023*

- Led the design and implementation of a comprehensive IAM solution for a financial services client with 2,000+ employees
- Integrated multi-factor authentication, role-based access controls, and automated provisioning workflows
- Reduced security incidents by 65% and access request processing time by 82%
- Technologies: Active Directory, SAML, OAuth, PowerShell, Custom APIs

### SECURE E-COMMERCE PLATFORM

*Lessek Contractors & Suppliers / 2021*

- Architected and developed a secure e-commerce platform processing 500+ daily transactions
- Implemented PCI-DSS compliant payment processing and data protection measures
- Achieved 99.95% uptime with robust security controls and monitoring

- Technologies: React.js, Node.js, PostgreSQL, Stripe API, JWT Authentication

## SECURITY OPERATIONS DASHBOARD

*World Wireless Solutions / 2024*

- Designed real-time security monitoring dashboard integrating data from multiple security tools
  - Created customized visualization components for threat intelligence and incident response
  - Reduced incident response time by 67% through improved visibility and automated alerting
  - Technologies: React.js, D3.js, Darktrace API Integration, Socket.io for Real-time Updates
- 

## PROFESSIONAL ASSOCIATIONS

- Member, Information Systems Security Association (ISSA)
  - Member, Open Web Application Security Project (OWASP)
  - Participant, Toronto Cybersecurity Meetup Group
- 

## ADDITIONAL SKILLS

- **Leadership:** Led cross-functional teams of up to 7 members on security implementation projects
- **Communication:** Experienced in presenting complex security concepts to non-technical stakeholders
- **Problem Solving:** Analytical approach to troubleshooting and incident resolution
- **Project Management:** Agile methodologies, resource planning, and deadline-driven execution
- **Documentation:** Technical writing for security policies, procedures, and knowledge transfer