Douglas **Moth**

Web and Application Developer

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PROFILE

Web and Application Developer specializing in modern JavaScript, React, and API-driven applications. Experienced in designing and deploying responsive, production-ready web solutions with serverless backends and live data integrations. Known for translating real-world requirements into clean, maintainable code and intuitive user experiences. Brings a strong systems background, ownership mindset, and a passion for continuous improvement.

TECHNICAL SKILLS

- **Languages:** C#, JavaScript, PHP, Python, HTML5, CSS3
- **Frameworks and Libraries**: .NET, React (functional components, hooks)
- **Web and Backend**: Node.js, REST APIs, Dynamic Web Applications with jQuery
- **Databases:** MySQL, SQL Programming, MongoDB
- **Mobile Development**: Android Development, iOS (Swift), Mobile web applications, Cloud-hosted backends (AWS)
- **Concepts**: Object-Oriented Programming, Responsive Design, Component-based architecture
- **Tools & IDEs:** Visual Studio Code, Eclipse, Android Studio, Swift and Git

EDUCATION- Post Secondary

Diploma in Web and Application Development (2024 – 2025)
CDI College

Diploma in Network Systems Engineering (2013 – 2015)
CDI College

Honors Diploma in E-Commerce and Business Management (2002 – 2004)
Sprott Shaw College

CORE COMPETENCIES

- **Full Stack Application Development:** Designing and building end-to-end web and mobile applications using modern front-end frameworks, backend services, and relational databases.
- **Front-End Engineering:** Developing responsive, component-based user interfaces with JavaScript, React, HTML5, and CSS3, with a focus on usability and maintainability.
- **Back-End Development & APIs**: Implementing server-side logic, RESTful APIs, and data integration using Node.js and relational databases.
- **Database Design & SQL:** Working with MySQL and SQL to design schemas, write queries, and support data-driven applications.
- **State Management & Application Flow**: Managing application state, side effects, and data flow within component-based architectures.
- **Technical Problem Solving & Debugging:** Diagnosing and resolving issues across front-end, backend, and integration layers**.**
- **Version Control & Collaboration:** Using Git to manage source code, collaborate with teams, and maintain clean, traceable change histories.
- **Testing, Documentation & Maintainability:** Writing clear documentation and maintaining readable, maintainable code to support long-term application health**.**
- **Continuous Learning & Adaptability**: Rapidly learning new frameworks, tools, and patterns to meet evolving technical and business needs.

CAREER HIGHLIGHTS

Web and Application Developer (2025 – Present)
Bells and Whistles Designs – *A living technical journal of how I think, build, and solve problems.*

- **Project and code samples**: GitHub https://github.com/bellsandwhistlesdesigns/bellsandwhistlesdesigns.github.io

- **Designed and deployed a production-ready portfolio**, platform featuring live API integrations, serverless backend functions (Netlify), and secure environment variable management.

- **Implemented a state-aware mobile navigation system**, to deliver personalized user experiences.

- **Implemented API caching strategies and fallback mechanisms** to optimize performance, control usage limits, and ensure reliability across devices.

- **Built responsive, mobile-aware UI components with graceful degradation** for offline/demo scenarios.

- **Maintain a public GitHub repository with active community engagement, version control best practices, and documented technical decisions.**

Team Lead (2020 – 2024)
PJS Systems ProSound

- **Led on-site project management for large-scale commercial AV installations**, overseeing budgeting, scheduling, resource allocation, drawings/blueprint interpretation, and coordination with contractors and clients to ensure smooth execution across multiple sites.

- **Successfully contributed to and completed many major projects including: Translink, BC Courthouses, Langara College, RCMP, Tasty Indian Bistros and UBC Brock Commons South ($2.8M AV infrastructure project)**, consistently delivering high-quality, professionally executed installations.

- **Directed weekly team meetings, supervised installation crews, and managed inventory and equipment logistics**, ensuring proper materials were available on-site and workflows stayed on schedule and within budget.

- **Built and configured AV networks; installed LED wall panels, projectors, speakers, and related systems** in compliance with technical specifications and safety standards.

Data and Security Installation Technician / Owner (2018 – 2020)
Smart Connex Inc.

- **Owned and operated a low-voltage data cabling and security installation business**, completing residential and commercial contracts involving structured cabling, network setup, and multi-camera surveillance systems.

- **Managed all phases of each project planning, estimating, customer communication, technical installation, troubleshooting, and quality assurance** ensuring every job was completed safely, professionally, and in alignment with client requirements.

- **Installed and tested data lines, configured routers/switches, mounted and calibrated security cameras, and optimized network performance**, delivering reliable system functionality and clear end-user documentation.

- **Oversaw scheduling, budgeting, vendor coordination, and on-site workflow**, ensuring projects stayed on track while consistently providing strong customer service and repeat-client satisfaction.

Network Administrator / Service Coordinator (2015 – 2018)
Logic Managed IT Services

- **Coordinated all incoming service desk requests**, triaging tickets, prioritizing workflow, and ensuring client issues were resolved efficiently and in alignment with Service Level Agreements (SLAs).

- **Led daily team meetings to review workloads, troubleshoot technical challenges, and maintain clear communication**, supporting a well-organized and responsive service environment.

- **Monitored business analytics and service metrics** to track performance, identify trends, and make data-driven recommendations that improved team efficiency and client satisfaction.

- **Prepared and configured customer equipment including servers, network security devices, and employee laptops** ensuring systems were properly staged, updated, and ready for deployment.

REFERENCES AVAILABLE