

STEPHAN DOUGLAS DUVAL

Full Stack Software Engineer — Missoula, Montana, USA

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PROFILE

Full Stack Software Engineer with 18+ years building, shipping, and operating production web applications. Founded and directed two software companies (eSnail.ca, MailClerk.com) and led software and hardware engineering teams in industry-academic capstone projects. Comfortable across the stack: PHP / Laravel / Symfony, Vue 3 and React with TypeScript, MySQL, and payments integration (Stripe, Moneris). Currently building Wrioter, a writing platform for long-form authors.

SKILLS

Languages: PHP, JavaScript, TypeScript, Python, SQL, C++, HTML, CSS

Frameworks: Laravel 11, Symfony, Vue 3, Vuetify, React, Redux, React Native, Electron, Kohana, Pinia, Vue Router, Vite

Databases: MySQL, SQLite

Integrations: Stripe, Moneris, Resend, Notarize.com API, Sanctum auth, RS-232, REST APIs

DevOps & Tools: Git, SSH, rsync, Bash, AWS, Heroku, Vercel, CloudPanel, Postman, PHPUnit, Vite, VS Code, Claude CLI

Creative & Manufacturing: Photoshop, Fusion 360, FreeCAD, Inkscape, Krita, Procreate, CNC, CAM, FDM, Prusa & Creality 3D printers

Operating Systems: Linux, Windows, macOS

EXPERIENCE

3D Printing Services Missoula | PHP, JavaScript, HTML

May 2026

Marketplace where customers upload files for instant 3D-printing quotations before ordering, and anyone can register their own 3D printing business to connect with new customers. Designed and built the proof-of-concept end to end.

Wrioter Writing Software | Vue 3, TypeScript, Laravel 11, MySQL

Jan 2023 – Present

Lead developer on browser-based writing software for long-form authors. Built mind-map canvas (Vue Flow), dynamic text snippets that live-reference text across manuscripts, drag-and-drop chapter organization, and Scrivener file import. Backend uses Laravel 11 with Sanctum SPA auth, CASL permissions, vue-i18n translation framework, and PHPUnit 11 feature tests.

Integrated Anthropic Claude API for in-editor AI text summarization with rate limiting, input validation, and comprehensive error handling.

Freyenet-Gagne Customer Portal | Vue, Laravel, MySQL

Dec 2022 – Feb 2023

Built a customer portal under government contract where agents could initiate, track, and approve changes to translations of official documents.

Lead Developer – Cognitive Research Project | React, Redux

Jun 2021 – Nov 2022

Lead developer on an approved University of Montana doctoral thesis project. Built an interactive site using React Hooks and Redux that logged user input and responses to visual stimuli for data processing. Project surfaced new categories of timing data that pivoted the thesis, and the client commissioned two additional follow-on tests.

Founder & Director – MailClerk.com | PHP, Symfony, Stripe, MySQL

Jun 2020 – Feb 2021

Designed, built, and launched US-based MailClerk.com — software for SMBs in mail handling to manage customers' mail and accounts, with an online wallet and automatic billing. Integrated Notarize.com's API for customer identity validation. Responsible for application design, API integration, daily business operations, contracts, and personnel.

Project Designer – Maple Film Supply Voltage Tx | React, Electron, C++, integrated circuits **Aug 2020**

Designed an MVP wireless transmitter allowing users to monitor voltage of multiple devices via an Android app. Owned overall project design and recruited the volunteer engineering team.

Software & Hardware Team Lead – LayoverBox.com | React, Electron, RS-232, MySQL **Aug 2016 – Jun 2020**

Led both software and hardware engineering teams (built with UBC's Electrical Engineering Capstone) to ship an MVP smart parcel-receiving mailbox — couriers drop parcels with no human clerk. Selected the technology stack; SouthCo lock integration over RS-232, React/Electron local app. Product served over 100 customers before the founder wound the business down.

Founder & Director – eSnail.ca | PHP, Kohana, Moneris, MySQL **Feb 2008 – Mar 2023**

Founded and ran eSnail.ca — software that let individuals view their postal mail online — for 15 years. Managed 3 franchises across 3 cities and 2 employees. Handled taxes, payroll, and software maintenance through the full company lifecycle.

MANAGEMENT EXPERIENCE

MailClerk.com **2020 – 2021**

Director *Missoula, MT*

Oversaw establishment and US expansion of operations, including franchise rollouts.

eSnail.ca **2008 – 2023**

Director *Vancouver, BC*

Managed 3 franchises across Canada and 2 part-time employees over a 15-year operating window.

Film Industry – Focus Puller **2010 – 2020**

Team Lead *Vancouver, BC*

Responsible for all camera equipment and personnel on \$1M–\$40M productions. Managed teams of 10 including scheduling, conflict resolution, and hiring. Interfaced regularly with IATSE 669 union.

EDUCATION

Western Governors University **Jul 2026 – Ongoing**

Bachelor of Science, Computer Science *Salt Lake City, UT*

University of Alberta **Jan 2003 – Aug 2007**

Bachelor of Arts, English (Film) *Edmonton, AB*

EXTRACURRICULAR

Drones & Robotics: Building autonomous fixed-wing drones (C++, ArduPilot).

Fabrication: 3D printing, CNC machining, traditional woodcarving.

Electronics: Prototyping circuits — wireless voltage meter, LoRa radio.

Writing: Short stories for my daughter.