

DILLON LEDFORD

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SUMMARY

Full-stack developer with professional experience in web application development, API integration, and AI/ML systems. Hands-on background in LLM integration, local model deployment, and cryptographic security. Proven ability to build and deploy complete applications independently from concept through production. ABET-accredited Applied Computer Science degree.

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, SQL

Development: Full-stack web development, API integration, database design, data structures & algorithms, Git/GitHub, BitBucket

AI/ML: LLM integration (OpenAI, Anthropic, Gemini), PyTorch, Hugging Face Transformers, neural networks, local model deployment (LlamaCPP), ComfyUI workflows & Stable Diffusion (2+ years), model training and fine-tuning

Infrastructure: Cloud computing (AWS, Render), MySQL/SQLite databases, Windows Server management, computer networking, server maintenance

Security: AES-256-GCM encryption, cryptographic key derivation (Scrypt), penetration testing, Kali Linux, cybersecurity fundamentals, network security

Data & Analytics: Data pipelines, RSS/API feed parsing, web scraping, data processing, NumPy, Pandas, Matplotlib, Jupyter Notebook, data visualization, Python scripting

Design & Tools: PyCharm, IntelliJ IDEA, WordPress, CMS platforms, Shopify, Adobe Creative Suite (5+ years professional), UI/UX design, responsive web design

PROJECTS

distillerat_ | distillerat.com | github.com/dillonledford/distillerat

AI-Powered Developer Activity Dashboard & Reporting Platform

- Full-stack Python/Flask application with SQLAlchemy ORM, RESTful API design, and Jinja2 templating
- Dual OAuth 2.0 implementation (GitHub + Google Workspace) using Flask-Dance with CASA verification compliance
- Integrates GitHub API, Google Drive API, Google Docs API, Google Picker API, and Gemini LLM (multi-model: gemini-2.5-flash/flash-lite)
- Custom LLM pipeline with engineered system prompts for technical-to-plain-English translation across two report modes
- Visitor mode with localStorage persistence, threaded keep-alive for Render deployment, ElevenLabs TTS integration (v1)
- Built independently and deployed in 6 days with free-tier services under \$10 total cost

Desktop File Encryption Tool with Cryptographic Erasure

- AES-256-GCM streaming encryption with Scrypt KDF, custom versioned file format, and full header AAD authentication
- Crypto-shred capability: encrypts files with random unrecoverable keys then destroys both plaintext and ciphertext
- Atomic file operations (fsync + os.replace) with restrictive permissions (0o600) and backwards-compatible format parsing
- Threaded tkinter GUI with queue-based event system, real-time progress tracking, and batch directory processing
- Cross-platform deployment (Windows/macOS/Linux) with graceful error handling and SSD limitation disclosure

WORK EXPERIENCE

Full-Stack Web Developer

Dasan Media LLC | Oct 2022 – Dec 2024 | Cape Girardeau, MO

- Developed and maintained full-stack web applications using Python/Flask, PHP, JavaScript, and MySQL for diverse client projects
- Built custom WordPress plugins and automation tools to meet specialized business requirements
- Managed Windows Server infrastructure, AWS cloud deployments, database administration, and network configuration
- Implemented API integrations for third-party services and payment processing systems in e-commerce platforms
- Handled server maintenance, security updates, backup systems, and performance optimization
- Worked autonomously from technical specifications through deployment with minimal oversight

Web Designer & Digital Marketer

Beyond Commercials | May 2019 – Sep 2022 | Cape Girardeau, MO

- Designed and developed custom WordPress websites for small business clients with focus on SEO and user experience
- Managed digital marketing campaigns including social media strategy, content creation, and advertising
- Handled end-to-end CMS management across WordPress, Wix, Squarespace, and Joomla platforms
- Coordinated directly with clients to plan website modifications, marketing strategies, and campaign execution
- Implemented technical SEO, site performance optimization (WP Rocket), and analytics tracking (MonsterInsights)

EDUCATION

Bachelor of Science in Applied Computer Science | May 2024

Southeast Missouri State University | Cape Girardeau, MO | **ABET Accredited** | Cybersecurity Capstone