

# MICHAEL A. GALLO

[linkedin.com/in/michael-a-gallo](https://www.linkedin.com/in/michael-a-gallo) | MICHAEL@GALLOCODING.COM | [github.com/MGallo-Code](https://github.com/MGallo-Code)

M.S. Computer Science graduate with Dean's List distinction; expertise in full-stack software development, cybersecurity, database systems, and cloud computing. Strong background in Python, TypeScript, SQL, Go, and AWS with hands-on experience in secure application development, test-driven development, containerization, and data privacy.

## EDUCATION

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| <b>The University of Vermont (3.94 GPA)</b>                   | Aug 2021 – May 2025 |
| Master of Science in Computer Science                         | May 2025            |
| Bachelor of Science in Computer Science, Minor in Mathematics | Aug 2024            |

## SKILLS

**Languages:** TypeScript, Python, Java, SQL, Go, Rust, C++, C, Bash/Shell, PHP, C#

**Frameworks:** React, Next.js, Vue, Angular, React Native, Node.js, Express, Django, Flask, NumPy, Pandas, Scikit-learn

**Tools & Platforms:** Git/GitHub, Docker, PostgreSQL, MongoDB, Redis, Supabase, AWS, Kubernetes, Postman

**Other:** REST APIs, TDD, Testing (Jest, Pytest), CI/CD, JWT, SCRUM/Agile, HTML, CSS

## PROJECTS

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|---|--------------------|
| <b>Authentication Microservice (Charon)</b>   | Feb 2026 – Present |
| <i>Go, PostgreSQL, Redis, Docker, GitHub Actions</i>  |                    |
| <ul style="list-style-type: none"><li>Built a production-scale, stateless session-based auth service in Go supporting 100K+ concurrent users with email/password and Google OAuth (PKCE + OIDC).</li><li>Implemented Argon2id password hashing, CSRF protection, per-identity rate limiting, audit logging, and Cloudflare Turnstile CAPTCHA integration.</li><li>Wrote 123+ tests across unit, integration, and e2e scenarios; deployed via multi-stage Docker builds with CI/CD through GitHub Actions.</li></ul> |                    |

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| <b>Study Set Web Application (Studiosity)</b>  | Nov 2023 – Oct 2025 |
| <i>AWS, Python, TypeScript: Django, PostgreSQL, Nginx, Vue, Docker</i>   |                     |
| <ul style="list-style-type: none"><li>Engineered a full-stack Django backend with secure custom login, registration, session management, and image/audio flashcard storage.</li><li>Integrated OpenAI API for automated study set creation and Amazon Polly for text-to-speech functionality.</li><li>Deployed via Docker containers on AWS; authored comprehensive setup documentation on GitHub.</li></ul> |                     |

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| <b>Phishing URL Detector (UVM CS Fair Finalist)</b>   | Oct 2025 – Dec 2025 |
| <i>Python: Scikit-learn, Selenium, Requests   VirtualBox</i>  |                     |
| <ul style="list-style-type: none"><li>Scraped 53 features from redirected URLs using an isolated VirtualBox Ubuntu environment for safe analysis.</li><li>Built ensemble phishing detection model using Logistic Regression, Random Forest, XGBoost, and a voting classifier.</li></ul> |                     |

## PROFESSIONAL EXPERIENCE

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|--|--------------------|
| <b>Freelance Software Developer</b>  | Jan 2024 – Present |
| <i>15 hours/week, Monday–Sunday</i>  |                    |
| <ul style="list-style-type: none"><li>Designed and developed custom websites for clients based on their specifications, delivering responsive, production-ready sites on schedule.</li><li>Collaborated directly with clients to gather requirements, iterate on feedback, and ensure final deliverables met functional and aesthetic goals.</li></ul> |                    |

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|---|------------------------|
| <b>Customer Service Associate (Association for Career and Technical Education [ACTE])</b>   | May 2023 – August 2023 |
| <i>40 hours/week, Monday–Friday</i>   |                        |
| <ul style="list-style-type: none"><li>Performed password resets and record merges while managing financial entries including invoice generation and registration payments</li><li>Maintained workflow efficiency during a 3-month system transition, upholding service standards while troubleshooting user issues.</li></ul> |                        |