Olivia McGoffin
Experienced Full-stack Software Engineer
calendar | portfolio | email | linkedin | github | San Francisco, CA

Relevant Contributions, Certifications, & Recognition

#21 Global Leaderboard, HackAPrompt AI Security Competition ('25) | Gandalf completion ('25) | AI Bug Bounty Private Program Participant, Anthropic (W24, SP25, SU25) | 8 AI Vulnerabilities Discovered & Responsibly Disclosed ('24-'25) | Open-source AI Evaluation frameworks ('25) | Parallel Computing in Python, Udemy ('25) | AI Alignment Fast-Track Certification, BlueDot Impact ('25) | Y Combinator W24 Applicant ('24) | Machine Learning Specialization Certification, Stanford/Coursera ('23)

Skills

Core Technologies: Python, Django, PyRit, Inspect, TypeScript, Node.js, React, Redux, Ruby on Rails, HTML, CSS, Tailwind, REST
AI & Data: LangChain, pgvector, RAG Architectures, Prompt Engineering, Data Analysis, Langfuse, SQL
Development: TDD, CI/CD, GitHub Actions, Agile, AWS, Docker, Git
Tools & Platforms: Cypress, Figma, Posthog, Warp, Claude Code
Leadership: Technical Mentorship, Project Leadership, Consulting, Process Improvements, Product Development

Professional Experience & Projects

Founder, MCP Compliance Middleware | ObfuscAlte   *Remote June '25 - Present*
Zero-trust PII redaction middleware operating at the MCP protocol level for enterprise AI adoption
Python | MCP Protocol | Django | Real-time PII Detection | Enterprise Security | Reversible Tokenization
- Built functional prototype addressing enterprise data protection requirements for AI agent workflows
- Implemented real-time detection and encryption across 15+ PII data types with reversible tokenization
- Developed MCP protocol integration enabling automated compliance validation within agent interaction
- Created live dashboard and audit trail system for enterprise compliance monitoring

Software Engineer, Consultant, Web Design Expert, Technical Advisor| Self-Employed   *Remote Oct '24 - June '25*
Building ethical, high-impact software systems for early-stage companies and frontier AI organizations
- Improved AI models on a project for a frontier AI company using UX/UI and web design expertise.
- Provided AI strategy and built end-to-end systems using Python, React, & SQL—delivering scalable, compliant solutions.
- Advised clients on build v. buy decisions, security trade-offs, & LLM architecture to accelerate delivery & reduce long-term risks
- Clients include Mercor Intelligence, Bad Bitch Empire (as technical advisor & LP), early-stage startups, researchers, & nonprofits

Engineering Lead & Senior Software Engineer | Hone   *Remote Feb '22 - Sept '24*
Serving Fortune 1000 clients with live corporate learning experiences.
Python | Django | TypeScript | React.js | CI/CD | AWS | Data Warehousing | Langchain | RAG | Engineering Process
Engineering Lead (Jan '23 - Sept '24)
- Led PoC AI initiative from ideation to development, including RAG retrieval systems & custom prompt engineering workflows.
- Operationalized Langfuse to monitor LLM usage & performance, improving observability.
- Mentored team members and collaborated with Product and QA to ensure the successful delivery of strategic initiatives.
- Assisted in quarterly planning with a focus on velocity, leading to 2x increase in delivery of features in under 6 months

Senior Software Engineer (Feb '22 - Dec '22)
- Designed and developed full-stack features, and implemented agile product development methodologies.
- Spearheaded CI/CD & testing improvements, cutting deployment time by 50% and increasing test coverage from 30% to 50%.
- Assisted in building out the data warehouse to have a single source of truth for multiple departments.

Founding Fullstack Software Engineer | Revenant Software Company   *Remote July '20 - Feb '22*
Seed-stage company developing tools for Research Scientists in biotechnology.
TypeScript | React.js | Node.js | MVP | Engineering Process
- Led the development of a cutting-edge software product for the biotechnology industry as one of three founding engineers.
- Spearheaded technical design discussions and decision-making, ensuring team alignment and successful project outcomes while fostering an inclusive team culture emphasizing clear communication and effective delivery.
- Established engineering processes & priorities, collaborating with leadership to align on project timelines & milestones for the first few clients.

Software Developer | thoughtbot   *San Francisco, CA Oct '19 - Apr '20*

Version 20260123

Product design & development consultancy specializing in E2E services for web apps for 1000+ clients.
TDD | Javascript | React | Redux | Ruby on Rails | Jest | Capybara | Git | Heroku | AWS
- Collaborated with founders, product managers, and technical teams to author high-quality, thoroughly tested software. Worked across 4 client products in healthcare, edtech, and B2C SaaS.
- Built and maintained web applications using **React, Ruby on Rails, GraphQL**, and **TDD practices**
- Refactored legacy forms built in Redux from base principles for performance and maintainability, including React API optimizations that reduced calls by 80%.
- Developed a greenfield GraphQL API for an iOS app, implementing schemas and service objects and delegators.
- Contributed to an engineering culture of **code quality, pair programming, and continuous improvement**

Web Producer | [Equinix](#)   *San Francisco, CA* Oct '18 - Oct '19
Global cloud infrastructure and data center company.
JavaScript | A/B Testing | SEO | CMS | Filmora | Marketo | JIRA
- Developed & debugged front-end web pages across 12+ languages while collaborating cross-functionally with design and product teams.
- Spearheaded the creation, development, and delivery of a comprehensive 3-week course on dotCMS, now a key resource for onboarding all new Web Producers.

Freelance Software Developer & Consultant   *Remote* May '15 - July '21
Independent consultant providing web development, design, and security solutions for 10+ small businesses and organizations.
- Revamped security infrastructure & designed full brand/web presence for clients across markets.

Expert STEM Tutor | Private & International Clients   *Colorado, Azerbaijan, California* '10 - '18
- Delivered 1-on-1 and small-group tutoring in STEM subjects at K–12 and university levels, with a focus on analytical thinking and problem-solving in **Math, Physics, and Engineering fundamentals**.

Volunteer Experience & Passion Projects

Senior Software Engineer | [BlueDot Impact](#)   *Remote* Jan '25 - Feb '25
Non-profit organization focused on AI safety, AI Governance and biosecurity. Engages with 4000+ professionals globally.
TypeScript | React.js | TDD | MVP | Engineering Process
- Led async collaboration to launch a greenfield AI safety product in just 5 weeks, exceeding initial targets
- Architected scalable systems and reusable design patterns, reducing tech debt and setting engineering standards
- Chose and implemented Posthog for GDPR-friendly analytics, balancing speed, compliance, and team bandwidth

Software Developer | [Rockwood Leadership Institute](#)   *Remote* Feb '19 - Feb '21
Nonprofit training 7,000+ leaders across climate, racial justice, and public health sectors.
Ruby on Rails | SalesForce | Mailchimp |Mandrill | Bootstrap | Git |Heroku | Linux |SSH
- Developed & implemented new features as the sole developer upon an existing web app with 5 admins and 500+ users.
- Addressed and secured 15+ application vulnerabilities by improving test coverage from 60% to 80%.

Instructor, Application Reviewer | [Stanford Summer Institute](#)   *Stanford, CA* Jan '18 - Aug '21
Rigorous on-campus, 8 week (60 hour) programs for prestigious high school students.
Curriculum Development | JavaScript | Ruby on Rails | Engineering Principles | MVP | Leadership | Product Lifecycle
- Designed & taught four full-semester (60-hour) courses on programming, product design, and optical engineering
- Taught 15+ students per cohort, maintaining a 90%+ project completion rate with high-quality technical outcomes by integrating Agile, MVP thinking, and engineering principles to bridge real-world application and theory

Education & Additional Skills

Bachelor of Science, Physics | *Colorado State University*   *Fort Collins, CO* '13
Minors in Mathematics, Russian, Art
Languages   *Native English, working fluency in Russian & Spanish, Beginner Italian*

Leadership & Community

Member, [Leopard](#) ('25- Present) **| Member,** [OWASP](#) ('25-Present) **| Fractional CTO** ('24-'25) **| Career Coach** ('25) **| Ambassador,** [Golden Gate Triathlon Club](#) ('25) **| Engineering Mentor,** [HackBright](#) ('21-'22) **| Engineering Mentor** [Built By Girls](#) ('20-'21) **| Co-founder & President,** [We Belong in Physics, CSU](#) ('10-'12) **| Member,** [Society of Physics Students](#) ('08-'13)