SHAWN McELROY • Senior Software Engineer

CA or Remote
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SUMMARY

Building durable, scalable systems, and services for over 12 in corporate environments and startups. AI Development and integration for coding assistance, developer tooling, and integration. Fast to integrate and onboard. Homelab enthusiast • No recruiter overhead

SKILLS

- **Languages**: Python, SQL, JavaScript/Node.js, Bash
- **Backend/API**: FastAPI, Django, Flask, REST APIs, C2C API integrations, service automation
- **Tooling**: GitHub actions, CI/CD, Docker, pytest, UV, pre-commit, code quality automation
- **AI**: OpenAI, Claude, custom skills, MCP, agentic workflows, AI-assisted coding
- **Data**: PostgreSQL, MySQL, SQLAlchemy, data validation, model-support tooling
- **Cloud/DevOps**: AWS Lambda + IAM, Linux, Docker, GitLab CI

EXPERIENCE

Python Developer at **Progyny (Remote, Contract)** 2026 - 2026

- Optimize multiple terabyte data-import workflows into PostgreSQL for performance, and stability.
- Built and maintained scalable FastAPI services using Docker and AWS Lambda deployment patterns.
- Accelerated feature development, conducted gap analysis research, generated implementation options, and streamlined test creation using LLM coding-agent workflows like OpenAI Codex.
- Integrated AI tooling into the team's best practices building LLM skills, MCP's, and workflows.

Software Developer at **PennyMAC (Remote)** 2021 - 2024

- Built automations for internal workflows and client APIs reducing administrative time by 18%.
- Pytest coverage from 0-80% by refactoring legacy services into Python using FastAPI and pytest.
- Improved developer efficiency by 15% for new projects and up to 60% for new developer onboarding by standardizing testing patterns, code quality, and CI feedback loops across legacy services.
- Implement OpenAI protocols to build skills and workflows for iteration, testing, processes.

Python Engineer at **Presence Product Group & PG&E (Remote)** 2020 - 2021

- Worked between software teams and data scientists to support Python tooling around machine-learning model inputs, validation workflows, and test coverage.
- Built pytest and Pydantic validation workflows for large field-data pipelines feeding ML models used in wildfire risk analysis.
- Reduced debugging and build-cycle friction by 10%-20% during critical project phases inside of CI/CD, pre-commit, and during PR code review using automation and deeper data validation.

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Django Developer at **Koinonia Foster Homes (Lincoln, CA)** 2020 - 2020

- Reducing paperwork overhead for foster care workers through process automation.
- Migrated deployments to Docker using Google GCE making the deployment processes 5x-10x faster.
- Significantly reduced Django deployment complexity using containers in Google GCP by optimizing the ci/cd build pipeline.

Self Employed Contractor at **Space Rock Media (Rocklin, CA)** 2018 - 2020

- Designed and Built websites and services using Python and FastAPI for small businesses.
- Automated business processes and leads using python services on AWS for business CRMs.
- Teaching clients skills how to manage social media content and reach more of their own customers using an online presence to lead to more sales or services.

Senior Software Engineer at **Riskalyze (Auburn, CA)** 2017 - 2018

- Deep integration of partner systems to in house services for thorough and consistent data automations.
- Built tracking dashboards to monitor hundreds of millions dollars of contracts to ensure they properly fell within regulatory adherence to mitigate risk and lawsuits. Python, FastAPI, Node.js, PostgreSQL, GraphQL, AWS, IAM.
- Validated ETL for 10+ terabytes/day pipeline from clients.
- Mentored Jr. developers on building RESTful API's using Python, Swagger, AWS, Docker, Pytest.

Lead Software Engineer at **Onlywire LLC (El Dorado Hills, CA)** 2016 - 2017

- Led a small team to rebuild a social media management system for users to cross post content.
- Achieving a 70% cost reduction in AWS deployments by converting monolithic beanstalk apps to Docker and automating pipelines.
- Created high-performance analytics system processing over 100 million daily records using Python pandas.

Systems Analyst/Programmer at **San Juan Unified School District (Carmichael, CA)** 2015 - 2016

- Rebuilt legacy education systems with modern python API's to better leverage external services in the platform and improve development efficiency.
- Cross-teamed to streamline migration and applied error checking to ensure data consistency.
- Modernized legacy educational system by replacing existing code, unlocking new features and paths to be developed significantly faster by using modern Python, Flask, PostgreSQL.
- Automated compliance with relevant laws.