

# Michael Wright

Senior Python Full Stack Developer | Django, Flask Specialist | Start-ups, Remote Preferred

Boulder, CO

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| [Portfolio](#)

## PROFILE SUMMARY

Highly skilled Senior Python Full Stack Developer with over 9 years of experience in developing robust, scalable, and high-performance web applications using **Django and Flask**. Proficient in designing and implementing RESTful APIs, microservices, and complex server-side logic. Demonstrated expertise in database design, optimization, and integration, ensuring seamless data flow and security.

Adept at leading development teams, mentoring junior engineers, and collaborating cross-functionality to deliver quality software solutions. Strong problem-solver with a passion for writing clean, maintainable code, and a deep understanding of cloud services, CI/CD pipelines, and DevOps practices. Committed to driving innovation and excellence in software engineering.

## CORE COMPETENCIES

- Architected multiple enterprise-level applications with exceptional performance and robust security
- Adept at developing robust back-end solutions using Python, Flask and Django, ensuring efficient and scalable code structure
- Expert in maintaining automated tests for comprehensive unit, integration, and end-to-end testing
- Skilled at resolving issues reported by automated systems, customer support, or QA teams
- Thrives in remote environments; adept at asynchronous communication and task management
- Proven track record of working with startups, understanding their needs and delivering solutions
- Embraces agile methodologies and practices, ensuring collaboration and continuous improvement
- Outstanding interpersonal skills with strong team spirit and great respect for diversity
- Exceptional organizational and time management skills with sound multitasking abilities

## SKILLS HIGHLIGHTS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C#
- **Web Frameworks:** Django, Flask, Fast API, Scala, ASP.NET, Node/Express
- **Libraries:** TensorFlow, PyTorch, Scikit-learn, NLTK, spaCy, Gensim, AWS CDK, CloudFormation, AWS SAM, Terraform, PySpark, Databricks
- **APIs & Microservices:** RESTful API design, GraphQL, Microservices architecture
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB, Redis, Neo4j
- **Cloud Services:** AWS (EC2, S3, RDS, EKS, Lambda, Aurora, Dynamo), Google Cloud Platform (GCP), Azure
- **DevOps & CI/CD:** Docker, Kubernetes, Jenkins, GitLab CI, CircleCI
- **Testing & QA:** Unit testing, Integration testing, pytest, Selenium
- **Version Control:** Git, GitHub, GitLab, Bitbucket
- **Security:** OAuth, JWT, CSRF, SSL/TLS, data encryption
- **Performance Optimization:** Query optimization, caching strategies, load balancing, Redis, Memcache, Kafka
- **Collaboration & Agile Practices:** Scrum, Kanban, Jira, Confluence, Code Reviews, Documentation
- **Other:** Machine Learning, Natural Language Processing

## PROFESSIONAL EXPERIENCE

### Senior Full Stack Python Developer | [Spotify](#)

Dec 2022 – Nov 2025

- Participated in building the Spotify Artist Platform and Advertising Platform from the ground up using **Python, Django, Flask, React, TypeScript and GCP**.
- Utilized **Python, Django, Flask** to develop a microservice-based backend infrastructure, establishing the communication between the micro-services by using **RabbitMQ**.
- Led the team in application development, hosted meetings, and managed tickets by prioritizing and allocating time appropriately.
- Worked with cross-functional teams, translating requirements into scalable, maintainable solutions with precision.
- Mentored junior developers, conducted insightful code reviews, and actively contributed to continuous improvement initiatives.
- Led the migration of legacy systems to a modern microservices architecture, enhancing scalability and integration.
- Worked closely with **DevOps** to implement automated testing and continuous integration for the pipelines, improving release cycles and reducing bugs.
- Gained hands-on experience with database management and data processing, focusing on **MySQL** and **PostgreSQL**.

- Managed **Kubernetes** clusters to orchestrate containerized applications, ensuring efficient scaling, load balancing, and high availability across multiple environments.
- Integrated Datadog for full stack observability, creating custom dashboards, monitors, and alerts to proactively detect performance issues across microservices, databases, and infrastructure.
- Utilized GCP services such as Google Kubernetes Engine (GKE), Cloud Storage, BigQuery, and Cloud SQL to design and deploy scalable microservice-based infrastructures, enhancing performance, reliability, and cost efficiency.
- Developed and integrated a cache architecture utilizing **Redis**, and implemented **Kafka** as the message broker for efficient data processing and communication.

Tech Stack: Python, Django, Flask, React, TypeScript, RabbitMQ, Datadog, Docker, Kubernetes, MySQL, PostgreSQL, Encryption, Google Cloud Platform, Redis, RESTful API, Microservices

#### Senior Python Developer | [Invitae](#)

Dec 2019 – Feb 2022

- Developed and maintained a monolithic Python-based web platform (Django/Flask) powering clinical genetic testing portals and reporting tools.
- Optimized backend performance with asynchronous programming (Celery) to efficiently handle concurrent AI model inference and background tasks, increasing throughput and reducing latency.
- Collaborated closely with AI/ML teams and engineers to integrate machine learning models and cloud-based AI services (AWS SageMaker, Google Cloud AI) into web applications, enabling scalable, real-time predictive insights for clinicians.
- Worked closely with data engineering teams supporting ETL pipelines for genetic and clinical data to ensure accurate and timely data flow to the web application.
- Leveraged **Docker** to containerize applications, streamlining development workflows and ensuring consistent environments across development, testing, and production stages.
- Implemented CI/CD pipelines with **Jenkins** and **Docker**, reducing deployment times by 40% and ensuring continuous delivery of AI features.
- Utilized Postman to test and validate RESTful API endpoints.
- Introduced automated testing with **pytest**, improving code quality and reducing regression issues in deployments.
- Mentored junior developers on web and AI integration projects, leading code reviews and fostering a collaborative, innovative team environment.

Tech Stack: Python, Django, Flask, Machine Learning Models, AWS SageMaker, Google Cloud AI, ETL, Docker, Jenkins, Celery, Postman, pytest, Jira, Git

#### Full Stack Developer | [Duo Security](#)

Jul 2016 – Nov 2019

- Developed and maintained a secure, enterprise-grade identity and access management platform using **Python (Flask)** for backend services and **React** for building responsive, user-friendly front-end interfaces.
- Integrated Duo's Multi-Factor Authentication (MFA) using **Duo Auth API** and Python SDK, enabling robust and seamless two-factor authentication flows for enterprise customers.
- Built React components for dynamic login and MFA prompts, enhancing user experience and ensuring accessibility and responsiveness across devices.
- Automated user and device management workflows via Duo Admin API with Python, streamlining user onboarding, enrollment, and device trust validation.
- Collaborated with security teams to implement zero-trust security models, enforcing adaptive access policies based on real-time device posture and user context.
- Designed and implemented RESTful backend APIs for authentication, session management, and device enrollment, ensuring secure communication between frontend and backend.
- Participated in code reviews and testing to maintain high standards for security, performance, and reliability within CI/CD pipelines.
- Contributed to SSO integrations supporting SAML and OAuth2/OIDC protocols, facilitating seamless identity federation and single sign-on experiences.

Tech Stack: Python, Flask, TypeScript, JavaScript, React, MySQL, Duo Auth API, OAuth, SSO, Jira, Git, Agile

## EDUCATION

Bachelor's Degree – Computer Science | [Michigan State University](#)

Aug 2012 – May 2016