

MANSI JOSHI

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PROFESSIONAL SUMMARY

Collaborative Full-Stack Software Engineer with 3+ years of experience building web applications using Python (Django/FastAPI) and React (TypeScript). Specializes in developing scalable backend systems, implementing CI/CD automation, and utilizing advanced AI coding assistants to deliver clean, maintainable, and user-centric solutions.

PROFESSIONAL EXPERIENCE

Full-Stack Engineer • BSCINTEC

Apr 2025 – Present • Ottawa, ON

- Improved application performance by 20% by architecting full-stack features using Python/Django and React/TypeScript (Vite) within an Agile team to ensure seamless module integration.
- Enhanced deployment reliability by 15% by containerizing applications with Docker, implementing CI/CD pipelines via GitHub Actions, and reduced query response times by refactoring PostgreSQL schemas.
- Improved development efficiency by leveraging AI-powered tools (Cursor, Claude Code, Antigravity) to automate boilerplate code, unit testing, and technical documentation.

Software Developer • PixelForge Web Solutions

Apr 2023 – Dec 2024 • Remote, Canada

- Reduced manual deployment effort by 35% by implementing automated CI/CD pipelines using GitHub Actions, deploying to Azure cloud staging environments to minimize production failures.
- Accelerated the Quality Assurance (QA) cycle by 50% by standardizing automated testing with Jest and Selenium, while delivering well-documented RESTful APIs with Swagger/OpenAPI for frontend and mobile teams.
- Modernized legacy backend modules and applied Service Layer design patterns to improve processing performance and ensure long-term system stability.

KEY PROJECTS

Fake News Detector • AI/ML Credibility Analysis Platform

TensorFlow (RoBERTa) • Python • Flask • React • Docker

- Engineered a multi-factor credibility analysis system using RoBERTa (ML) and TextBlob (Sentiment Analysis) to evaluate articles across 5 weighted scoring factors with heuristic-based fallbacks.
- Optimized backend performance using the Singleton pattern for ML model loading, reducing per-request overhead while maintaining system reliability.
- Architected a containerized full-stack application using Docker Compose with hot-reload development environments and production-ready multi-stage builds.

Social Automate • Social Media Automation Platform

Python • Django • PostgreSQL • Redis • OAuth 2.0 • GitHub Actions

- Developed an asynchronous task scheduling system using Django, Celery, and Redis to process background social media tasks, preventing main application latency and ensuring a smooth user experience.
- Implemented session- and JWT-based authentication flows with comprehensive API documentation, improving integration efficiency and long-term maintainability.
- Achieved 100% code coverage for core business logic by developing a comprehensive unit testing suite with PyTest.

EDUCATION

Algonquin College of Applied Arts and Technology • Ottawa, ON

Advanced Diploma, Computer Engineering Technology - Computing Science • Graduated

Extracurriculars: AWS Educate - Cloud Fundamentals (Compute, Databases, IAM Security, Networking, Storage)

TECHNICAL SKILLS

- Languages:** Python, TypeScript, JavaScript, SQL, C#, Java, C++, HTML5, CSS3
- Frameworks:** Django, FastAPI, Flask, Node.js, Express, React (Vite), React Native, ASP.NET Core, .NET
- Databases & Storage:** PostgreSQL, MySQL, Redis, AWS S3, Azure Blob, MinIO
- DevOps & Tools:** Docker Compose, GitHub Actions, CI/CD, Git, Linux, Swagger/OpenAPI, PyTest, Jest, Selenium, Cursor, Claude Code, Antigravity, VS Code