

# Usnik Biswas

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## Professional Summary

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Results-driven Backend Software Developer with 4+ years of hands-on experience building and maintaining robust backend systems using Python, Flask, and automation tools. Experienced with multi-language environments, DevOps pipelines, AI-driven chatbot integrations, and cloud deployments. Passionate about solving real-world problems through clean code and scalable architectures.

## Technical Skills

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- **GenAI & LLMs:** Large Language Models (LLMs), RAG (Retrieval-Augmented Generation), LangChain, OpenAI API, Prompt Engineering, Agentic Workflows
- **Languages:** Python, PHP, Bash, Shell
- **Frameworks & Libraries:** Flask, Selenium, NLTK, Spacy, CodeIgniter
- **Tools & Platforms:** Git, Docker, Ansible, Pinecone, OpenAI, Linux, VPS (Nginx, FTP, Hosting)
- **Cloud & DevOps:** GCP (Cloud Run, Compute Engine), CI/CD, DevSecOps
- **Databases:** Pinecone (Vector DB), MySQL, SQLite
- **Other:** Agile Development, REST APIs, Web Scraping

## Professional Experience

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### Software Developer – Tech Mahindra

Bangalore, India | Mar 2025 – Present

- Led GenAI-driven modernization across 1000+ enterprise applications, architecting Large Language Model (LLM) agents to automate codebase remediation, security patching, and architectural refactoring at scale.
- Developed agentic workflows using Python and LangChain to automate multi-language code translation and logic optimization, reducing manual refactoring effort by 70%.
- Engineered internal RAG (Retrieval-Augmented Generation) systems to assist developers in navigating and remediating legacy enterprise codebases across Python, PHP, Java, and JS.
- Built automated prompt engineering pipelines to ensure high-fidelity code generation and integration with enterprise CI/CD systems.
- Optimized DevSecOps workflows with GenAI-based vulnerability analysis and automated unit test generation, improving overall production reliability.

### Backend Developer – StableHacks

Toronto, Canada | May 2023 – Aug 2024

- Developed and maintained Python/Flask APIs for scalable data access.
- Built scraping + NLP pipelines (Selenium, NLTK, Spacy) storing in Pinecone.
- Led OpenAI-powered chatbot development improving UX and support workflows.
- Deployed/managed services on GCP (Cloud Run, Compute Engine, Functions).
- Managed VPS hosting APIs, FTP, and Nginx.

### Software Developer – Accenture

Chennai, India | Jun 2019 – Jun 2021

- Maintained backend systems for e-commerce platforms across 16 countries.
- Built backend modules in PHP integrated with SAP/Magento.
- Automated data migration with Python, reducing errors and manual effort.

## Software Developer Intern – Octalion

Bangalore, India | Dec 2018 – Apr 2019

- Built secure multi-user authentication system for an education platform.
- Worked on backend architecture with PHP (CodeIgniter).
- Led a team of 5 juniors, ensuring code quality and collaboration.

## Education

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- **Lambton College**, Toronto, Canada – Cloud Computing for Big Data (Jan 2022 – Aug 2023) | CGPA: 3.4/4.0
- **Karunya University**, Coimbatore, India – B.Tech Computer Science Technology (Jun 2015 – Jun 2019) | CGPA: 7.8/10