Usnik Biswas

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Professional Summary

Results-driven Backend Software Developer with 4+ years of hands-on experience building and maintaining robust backend systems using Python, Flask, and automation tools. Proven track record in codebase remediation, web scraping, and cloud deployment. Experienced with multi-language environments, DevOps pipelines, AI-driven chatbot integrations, and a strong Linux background. Passionate about solving real-world problems through clean code and scalable architectures.

Technical Skills

- **Programming Languages**: Python, PHP, Bash, Shell
- **Frameworks & Libraries**: Flask, Selenium, LangChain, NLTK, Spacy, CodeIgniter
- **Tools & Platforms**: Git, Docker, Ansible, Pinecone, OpenAI, Linux, VPS (Nginx, FTP, Hosting)
- **Automation & Scripting**: Bash, Shell Scripting, Ansible
- **Cloud & DevOps**: Google Cloud Platform (Cloud Run, Compute Engine), CI/CD, Version Control
- **Databases**: Pinecone (Vector DB), MySQL, SQLite
- **Other**: Agile Development, RESTful APIs, Web Scraping

Professional Experience

Software Developer – Tech Mahindra
Bangalore, India | March 2025 – Present

• Contributed to large-scale codebase hygiene initiatives across 1000+ enterprise applications, improving long-term code maintainability and security.
• Worked with multi-language codebases, implementing scalable fixes and refactoring using automated build, test, and deployment pipelines.
• Built internal **Python automation** scripts to streamline code analysis, remediation tracking, and integration validation in Linux Environment.
• Enhanced **CI/CD** workflows for faster and more reliable deployments.
• Gained enterprise-level exposure to backend systems, **DevOps** practices, and high-impact production environments.

Backend Software Developer – StableHacks
Toronto, Canada | May 2023 – August 2024

• Developed and maintained **backend APIs** using **Python** and **Flask**, enabling efficient and scalable data access.
• Built custom web scraping solutions with **Selenium** to extract and refine large volumes of structured data from the web.
• Applied text cleaning and **NLP** techniques (**NLTK, Spacy**) to improve data quality and searchability before storing in Pinecone.
• Led the development of an **OpenAI**-powered **chatbot**, significantly improving user experience and support workflows.
• Deployed and managed services on **Google Cloud Platform**, using **Cloud Run**, Compute Engine, and Cloud Functions.
• Maintained and secured a Virtual Private Server, hosting multiple services including **FTP**, **Nginx**, and backend APIs.

Software Developer – Accenture
Chennai, India | June 2019 – June 2021

• Designed and maintained backend systems for e-commerce platforms across 16 countries.
• Developed backend modules using PHP and integrated with SAP and Magento systems.
• Automated daily data migration tasks using Python scripts, improving accuracy and reducing manual effort.

Software Developer Intern – Octalion
Bangalore, India | Dec 2018 – Apr 2019

• Developed a secure multi-user authentication system for an education platform.
• Worked with PHP (CodeIgniter) on backend architecture and access control modules.
• Led a team of five junior developers, coordinating development efforts and code quality.

Education

Cloud Computing for Big Data – Lambton College, Toronto, Canada
Jan 2022 – Aug 2023 | CGPA: 3.4 / 4.0

B.Tech in Computer Science Technology – Karunya University, Coimbatore, India
June 2015 – June 2019 | CGPA: 7.8 / 10