

Swapnil Bhalerao

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PROFESSIONAL SUMMARY

Adaptable Software Engineer with 3+ years of experience in delivering scalable full-stack solutions, automating cloud deployments, and building AI-powered features. Experienced in improving system efficiency, user experience, and team velocity through Agile. Skilled in streamlining DevOps workflows to accelerate product delivery and drive business impact.

EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, NY

May 2025

Master of Science: Computer Science

- **Guided 10+ students** through personalized learning sessions, improving academic and classroom performance.
- Coursework: Artificial Intelligence, NLP, Analysis of Algorithm, Data Mining, Cryptography, IOT, Operating Systems.

Pune University - Sinhgad College of Engineering, India

May 2020

Bachelor of Engineering: Information Technology

- Led campus technical events, demonstrating **exceptional leadership, critical thinking, and management skills**.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, C#, PHP, SQL, Bash, PowerShell, HTML, CSS, Shell Scripting

Frameworks: React, Next.js, Angular, TailwindCSS, Node.js, Express, Spring Boot, Laravel, FastAPI, Django, Flask

Databases: MySQL, SQL Server, T-SQL, PostgreSQL, Oracle, SQLite, MongoDB, DynamoDB, Apache Spark, Hadoop

Visualization & BI Tools: Tableau, Power BI, Matplotlib, Seaborn, Excel Charts, Google Data Studio, Google Sheets

GenAI / ML: Transformers, BERT, LLaMA, LoRA, LangChain, spaCy, OpenCV, TensorFlow, Keras, PyTorch, scikit-learn

DevOps & Cloud: AWS (EC2, S3, Lambda), Azure DevOps, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions

Other: RESTful APIs, System Design, TCP/IP, DNS, Linux/Unix, VMware, Agile, Scrum, Git, GitHub, Confluence, SDLC

PROFESSIONAL EXPERIENCE

Software Developer, iConsult Collaborative – Syracuse, NY

October 2023 – May 2025

Tech Stack: Python, FastAPI, React, Next.js, Azure, Docker, Terraform, Kubernetes, GitHub Actions

- Developed full-stack apps using **Next.js** and **React**, **reducing load times by 40%** for dynamic client dashboards
- Built CI/CD pipelines with **GitHub Actions**; deployed to Azure with **90% automated** Docker/Kubernetes provisioning
- Collaborated in **Agile sprints**, **delivering 15+ client features** with improved UX scores from user feedback
- Integrated AI-driven analytics using **scikit-learn**, enabling **3x faster data visualization** for non-technical clients

Technical Support Specialist, Syracuse University Libraries – Syracuse, NY

August 2024 – May 2025

Tech Stack: Linux/Unix, VMware, Windows Server, PowerShell, Bash, TCP/IP, DNS, VPN

- Streamlined **IT operations by 30%** by debugging critical system issues and Bash automation on Windows Server
- Resolved 50+ weekly incidents involving software, and configuration errors, boosting **customer satisfaction by 10%**
- Maintained and monitored **VMware, Linux systems**; troubleshoot **DNS/TCP/IP-related** failures to minimize downtime

Sr. Software Engineer, Digital Edu IT Solutions Pvt. Ltd. – Remote

August 2020 – May 2022

Tech Stack: Python, Angular, PHP, Oracle DB, Kubernetes, Bash, VMware, Hugging Face, LangChain

- Fine-tuned **LLaMA** and **BERT models using LoRA/QLoRA**, boosting academic **performance accuracy by 18%**
- Integrated **LLMs into ERP/LMS via LangChain**, vector DBs (e.g., **FAISS**), serving 10K+ students with real-time NLP
- Built modular LMS features in Angular and PHP with PL/SQL, **improving content delivery efficiency by 40%**
- Refactored **SQL and PL/SQL queries**, **cutting LMS load times by 45%** and improving student retention analytics

ACADEMIC PROJECTS

Music Recommendation Engine | Python, React, Node, OAuth, JWT, WebSocket

[\[Demo\]](#) [\[GitHub\]](#)

- Developed personalized recommendation platform **improving retention by 15%** via dynamic UI, real-time updates
- Implemented **OAuth 2.0** and **JWT authentication**, integrated **RESTful APIs** for session and playlist management

Trends Analytics & Sentiment Mining in Gaming Applications | Python, NLTK, Matplotlib, BERT

[\[GitHub\]](#)

- Designed sentiment analysis model achieving **91% accuracy across 10K+ reviews** using **BERT** and **Transformers**
- Used Matplotlib and Seaborn to visualize behavioral trends across platforms, supporting game development insights

Movie Recommendation using Transformers | Python, BeautifulSoup, HuggingFace, TensorFlow, Flask

[\[GitHub\]](#)

- Created recommendation engine with **90% precision** using **Transformers** and metadata-based semantic matching
- Scraped and cleaned IMDb data using **BeautifulSoup**, applying custom NLP preprocessing workflows
- Hosted a **Flask-based web server** exposing endpoints for recommendation delivery, integrated with **RESTful APIs**

LEADERSHIP / INVOLVEMENTS

Cybersecurity Club Member, iSchool's Information Security Club

Aug 2023 – May 2024