

# AISHWARYA KALBURGI

Software Developer | AI Enthusiast | Full-Stack Engineer

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## PROFESSIONAL SUMMARY

Experienced Software Developer with 7+ years across multiple domains including Automation, Cloud Technologies, and Full Stack Development. Currently expanding expertise into Data Science and AI. Customer-obsessed professional with a proven track record of building innovative solutions to solve real-world problems. Eager to learn, grow, and contribute to business success.

## TECHNICAL SKILLS

### Programming Skills & Frameworks

Python, JavaScript, TypeScript, Java, MySQL, NoSQL, Prisma, React, Next.js, Flask, Tailwind CSS, Object-Oriented Programming, Data Structures and Algorithms, Docker, Linux, ELK Stack, Git, PyTorch, LangChain

### IT & AI Tools

AWS, VS Code, PyCharm, Postman, Hugging Face, Jupyter Notebook, BeeKeeper Studio, Hybrid Cloud Management (MicroFocus), Operation Orchestration (MicroFocus Workflow Automation Tool), ELK Stack, crewAI, Git/GitHub, n8n, Groq Cloud, Notion

## PROFESSIONAL EXPERIENCE

### Support Engineer II | Amazon

May 2022 - April 2024

- **Amazon Academy:** Implemented functionalities to manage course content bundles (cloning, adding, deleting, and viewing offerings in a bundle), reducing manual workload for the content team. Technologies used: Flask, Elastic Search, Dynamo DB
- **Amazon Academy:** Implemented validations on daily digest (tip of the day) fields to eliminate delivery of blank/incorrect content for a specific day to the students using Java and Bash scripting.
- **Amazon Academy:** Developed an automated solution to validate availability of all artifacts (DPP, Classnotes, watch recordings) for each session in the Live Lectures component and notify teachers via email. Technologies: Flask, S3, AppConfig, IAM.
- **Kindle Accounting and Royalty:** Worked on accounting launches and addressing tech debts for the Ebooks and Kindle Unlimited (KU) business.
- Automated the generation of Accounting Rollforward report for Deferred Revenue in the KU business utilizing Datanet and Spark technologies.
- Developed a new reporting framework to automate the generation of Accounting Aging Reports for KU subscriptions. Technologies used: Datanet, Redshift, AWS CDK, AWS Glue, AWS Lambda, PySpark, Kotlin
- Addressed a significant financial impact of approximately \$1MM resulting from unbooked transactions in the accounting ledger.
- Performed accounting transaction redrives for reducing unbooked impact.
- Experienced in ticket handling including sev 2 tickets and engaged in on-call responsibilities. Worked on resolving risks and weblab removal.
- Automated the booking of accounting entries for Gift breakage and Unbreakage for Ebooks Gifting and KU subscription gifting. Technologies Used: Cradle Job, AWS Glue
- Implemented an automated alarm system to detect and alert revenue adjustment failures in bundled purchases (Digital+Physical), preventing accounting discrepancies. (Java)

### Senior Software Developer | Prodapt

Dec 2021 - April 2022

- Developed a Python-based SNMP query utility for network management and packaged it as a standalone application with PyInstaller
- Replaced file-based approach with API-based approach when directing information to Event Stream Processing (ESP), a component of Assure1
- Gained exposure to Go programming language, Microservices architecture, and network technologies like Assure1

### Cloud and Automation Engineer | MicroFocus

Nov 2017 - Oct 2021

- Created a dashboard for Micro Focus Pre-sales data using the ELK stack by processing data with Logstash, storing it in Elasticsearch, and creating visualizations in Kibana
- Developed banking use cases such as securitization and demand drafts, and fixed defects for the Westpac application
- Worked with HPE tools such as Server Automation, Operations Bridge Manager (OBM), Operation Orchestration, and vCenter to automate the setup and management of a Linux-based infrastructure
- Automated Workday expense report generation with RPA (Robotic Process Automation) and UFT (Unified Functional Testing)
- Contributed to chatbot development for Sungard customer
- API Integration with Netsuite APIs for P2P processing
- Automated VM resource utilization summary generation in an Excel worksheet using Python scripting
- Developed functionality and APIs to enable E-bonding between two incident management applications

- Tracked workflow path usage in Operations Orchestration to identify least-used paths, enabling data-driven decisions on path retention
  - Automated daily status report generation for Westpac, providing a snapshot of application performance, transaction metrics, errors, and anomalies
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## PROJECTS

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### Ice Cream POS Billing Application

*Next.js, MySQL, Tailwind, Prisma*

- Designed and developed a complete Point of Sale system for an ice cream shop that is currently in production use by a local business.
- Implemented comprehensive features including billing, order management, sales tracking, employee management, analytics dashboard, and coupon handling
- Implemented user-friendly interface with robust backend processing and insightful sales analytics
- [GitHub](#)

### Label Lens: A Food Ingredient Analyzer

*React Vite, Botpress, Supabase*

- Created an AI-powered application that analyzes ingredient lists of food products
- Provides health ratings, detects potentially harmful ingredients, carcinogens, and preservatives
- Enables comparison of up to three products to determine the healthiest option
- [Live Demo](#)

### Daily Karnataka News Highlights AI

*Python, Mailchimp, LangChain, crewAI, GitHub Actions*

- Built an automated news summary system that fetches and delivers the latest news updates about Karnataka
- Leveraged CrewAI for research agents, Serper API for web searches, and Mailchimp for email distribution
- Deployed on GitHub Actions with Streamlit for the user interface
- [Live Demo](#)

### News Researcher Agent

*Python, LangChain, FAISS, RAG*

- Developed an AI-powered RAG Application to fetch and process article content from URLs
  - Used LangChain's UnstructuredURL Loader and generated embedding vectors with OpenAI
  - Indexed content using FAISS for fast and efficient retrieval
  - Integrated with Gemini LLM for question answering with source citations
  - [Live Demo](#)
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## EDUCATION

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### Bachelor of Engineering

*B V Bhoomaraddi College Of Engineering & Technology | 2013 - 2017*

- Developed a college database management system with GUI using Java Swing and MySQL
- Implemented an Online Results System using Java and MySQL
- Created a hand gesture-controlled game in Unity 3D, integrated with OpenCV
- Built an optimized face recognition system using Gabor filter and SVM classifier

### Pre-University

*Chetan PU College Hubli | 2010 - 2012*