Jonathan Chacko

AI | Automation | Developer

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PROFILE

As a developer with a strong focus on AI and automation, I specialize in streamlining workflows and extracting insights from data while building scalable solutions and thriving in fast-paced environments constantly learning adapting and collaborating to drive real-world impact.

SKILLS

- **Programming Languages:** Python, Java, C++
- **Database Systems:** MySQL, SQLite, Firebase Firestore/Realtime Database
- **Cloud:** Google Cloud Services, Amazon Web Services
- **Machine Learning & AI:** TensorFlow, PyTorch, GCP ADK, Ollama, Google Document AI
- **Testing Frameworks & Tools:** Selenium, Beautiful Soup, J-Soup
- **GUI & Web Development Frameworks:** Django, Python Tkinter, Java Swing, Android Development with Java
- **Visualization Tools:** Tableau
- **Operating Systems:** Windows, Linux
- **Web Hosting Servers/Services:** cPanel, Firebase Hosting, Hostinger Server
- **IDE's:** Visual Studio Code, IntelliJ, Eclipse, Android Studio, Anaconda
- **Others:** GIT, Raspberry Pi, Windows Subsystem for Linux (WSL), Putty, Power Automate, GitHub, Postman, ROS (Robot Operating System)
- **Continued Learning:** Power BI, Video Editing, KNIME, n8n, GCP A2A, GCP MCP (Note- Fields which I have Knowledge but no Practical opportunity Yet.)

EDUCATION

Artificial Intelligence (Postgrad Certificate) — *Seneca Polytechnic*, Ontario, Canada (2025 – Ongoing)
BCA – Bachelor of Computer Applications — *Symbiosis Institute of Computer Studies and Research*, Pune, India (2023)

EXPERIENCE

Lead Software Developer – Automation
Maritime Support Solutions (Remote from Canada) — *June 2023 – Present*
Developed Smooth-Ocean.tech, a modular platform automating shipping logistics workflows. Led backend

development (Django, MySQL), automation tooling (Selenium, PDF parsing, data validations), and API integrations (Power BI). Supported global IT operations, ISO documentation, and vendor management.

Software Developer Consultant
MÖBEL Cabinetry, Hamilton, Canada — Sept 2024 – Feb 2025
Contributed to feature design, bug fixes, and new system architecture across PHP, Laravel, and Angular stacks during two major development phases.

Professional IT Trainer
Rogersoft, India — Jan 2023 – Aug 2023
Taught Python, Django, Data Science, SQL, and Statistics, mentoring students to create real-world project applications customized to their interests.

Mobile App Developer
Bohanee (Startup) — Jan 2022 – July 2023
Built Android POS app for small shopkeepers in India featuring barcode scanning and inventory analytics. Used app data to generate insights and explore wholesaler opportunities.

PROJECT HIGHLIGHTS

Spendify *(in progress)*
AI-powered expense optimization platform integrating Discord bot image uploads, GCP Vertex AI OCR, and a structured GCP ADK (Agent Development Kit) pipeline for automated receipt classification. Replaces traditional LLM-based approaches with a multi-agent system enforcing strict schemas for explainable, validated results. Automates the end-to-end flow from receipt capture to structured storage, enabling predictive analytics and dashboard visualization. Fully containerized and CI/CD-deployed for scalability.
Tools: Discord Bot, Google Vertex AI Document AI, GCP ADK Agentic Pipeline, Flask API, Firebase, Docker, GCP Cloud Run

Smooth-Ocean.tech
Automated platform for shipping agents handling imports, inventory, exports, and transshipment. Modular system parses PDFs, Excels, CSVs, populates a centralized DB, and pushes output to Power BI.
Tools: Python, Django, MySQL, Selenium, GCP, Firebase

Author Monitor
Web scraper turned GitHub Actions tool that monitors author content online and updates repo README with summaries.
Tools: Python, BeautifulSoup, GitHub Actions

Home Automation (Raspberry Pi)
Voice/light control, garage automation using cameras, and local chat server.
Tools: Python, Raspberry Pi 4b, TP-Link, Philips Wiz, Camera

GCP Document AI Custom ML
Trained ML models for document parsing tailored to logistics data formats. Deployed on production for Maritime Support Solutions.
Tools: GCP Document AI