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**, an automated logistics platform for shipping agents handling imports, inventory,

exports, and transshipment. The modular system parses PDFs, Excels, and CSVs to populate a centralized MySQL database and delivers outputs into Power BI dashboards. Led backend development with Django/MySQL, built automation tooling with Selenium, PDF/Excel parsing, and data validations, and integrated APIs for reporting. Additionally supported global IT operations, ISO documentation, and vendor management to ensure scalable, compliant, and efficient shipping workflows.

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

smooth-ocean.ai *(in progress)*
Built on Google ADK (Agent Development Kit) to debug Django + MySQL applications. Designed a multi-agent pipeline to analyze error pages, screenshots, and raw code, orchestrating tasks like code inspection, model tracing, and database flow analysis. Integrated with GitHub MCP, a custom MCP server for link/code mapping, and the GenAI Toolkit for secure database access.
Tools: ADK, Django, MySQL, A2A, MCP, GenAI Toolkit

Spendify
AI-powered expense platform integrating Discord bot uploads, GCP Vertex AI OCR, and a GCP ADK multi-agent pipeline for structured receipt classification. Automates capture-to-storage with validated outputs, enabling predictive analytics and dashboard insights. Fully containerized with CI/CD deployment for scalability.
Tools: Discord Bot, Google Vertex AI Document AI, GCP ADK Agentic Pipeline, Flask API, Firebase, Docker, GCP Cloud Run

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

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