**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