Jonathan Dorfman

📞 416-887-0807 | ✉ jonathan.dorfman1@gmail.com | 🌐 pohi.me | 🔗 linkedin.com/in/jonathan-dorfman

EDUCATION

Carleton University — Ottawa, ON
Bachelor of Computer Science (3.7/4.0 GPA) — *Sep 2021 – May 2026*

CERTIFICATIONS

AWS Certified Solutions Architect − Associate — Nov 2025
CompTIA Security+ (SY0-701) — Jul 2024

EXPERIENCE

Software Engineer Co-op — Jan 2025 – Present
CGI — *Ottawa, ON*

- Delivered a critical payment processing application to ISED Canada adhering to **PCI DSS** compliance standards by developing the full-stack **Java Spring Boot** solution and collaborating with the cloud team on the **AWS** deployment.
- Reduced member registration approval time by several days by implementing secure file handling and **ServiceNow** integrations to eliminate manual email loops.
- Resolved immediate team bottlenecks to **save 5+ hours of weekly labor** by developing ad-hoc **Python** automation scripts for repetitive tasks.
- Reduced client report generation time from hours to minutes and eliminated human error by engineering an automated pipeline using **Python (Pandas)** and **SQL**.

Software Engineer Co-op — Sep 2023 – Dec 2023
Royal Canadian Mint — *Ottawa, ON*

- Increased weekly reporting accuracy and **saved several hours** of manual data transfer by developing **Python** scripts to automate web scraping of table data and direct population of Excel reports.
- Delivered **over 62,000 ATM addresses** by executing a large-scale national data collection project and developing a scraping script utilizing **BeautifulSoup** to iteratively simulate postal code entry.

Founder & Full Stack Developer — Jun 2020 – Jul 2022
LeagueKingdom — *Toronto, ON*

- Scaled a full-stack e-commerce marketplace to support **hundreds of active users** and generate **over $10,000 in revenue** by building the platform from scratch using the **MERN stack**.
- Streamlined digital fulfillment, **increasing speed by over 1000%**, by implementing **Bash** automation scripts to manage concurrent product provisioning on **Linux VM** infrastructure.
- Maintained a **99% positive review rate** by managing end-to-end technical support and resolving customer inquiries directly.

PROJECTS

PhotogenAI | *Next.js, TypeScript, FastAPI, Python, AWS, Terraform* — Nov 2025

- Built a production multimodal AI SaaS turning casual product photos into studio-quality creatives in under 60 seconds using **Google Gemini 2.5 Flash**.
- Designed an initial microservices architecture on **AWS** with full **Terraform IaC**, then re-architected the backend to a serverless **Next.js** solution to achieve **100% cost reduction**.
- Implemented enterprise safeguards: per-second billing, rate limiting, and 24-hour data ephemerality.

Auto Assistant 360 | *Python, OpenAI Agent SDK, PostgreSQL* — Apr 2025 – May 2025

- Developed an autonomous AI support agent using **Python** and **OpenAI's Agent SDK** during an internal hackathon at CGI, automating email support ticket resolution.
- Engineered a **GPT-4o** powered agent capable of intent classification, tool selection, and autonomous task execution to resolve queries without human intervention.
- Designed an email parsing pipeline triggering conditional logic workflows, reducing manual triage time.

GenAI Document Q&A | *Python, LangChain, Ollama, RAG* — Feb 2025

- Developed a local **RAG** system utilizing **LangChain** and **Ollama** to enable natural language querying of PDF documents.
- Implemented a vector search pipeline using **ChromaDB** and **SentenceTransformers** for high-accuracy semantic retrieval.
- Drastically reduced hallucinations and improved response accuracy by engineering prompt templates that strictly bound the LLM's generation to vector-retrieved context.

TECHNICAL SKILLS

AI/ML & Data Science | Generative AI, Multimodal AI, Computer Vision, LLMs, RAG, Prompt Engineering, Vector Databases (ChromaDB), LangChain, Ollama, Python, Pandas, NumPy

Languages | Python, TypeScript, Java, SQL (Postgres), NoSQL (MongoDB), JavaScript, C/C++, HTML/CSS

Web Frameworks | Next.js, React, FastAPI, Spring Boot, Node.js, Express.js, Django, Flask, Streamlit

Cloud & DevOps | AWS (ECS Fargate, SQS, DynamoDB, CloudFront), Terraform, Azure, Git, Docker, Kubernetes, Linux, Bash