

# CHANDRALEKHA POLEPALLE

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Phone: +1 647-640-9969

Portfolio: <https://technical-portfolio-f114.vercel.app/>

GitHub: <https://github.com/ChandralekhaPolepalle>

## SKILLS

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**Programming Languages:** Python, C, C++, ReactJS, VueJS, JavaScript, Java, CSS, Bootstrap

**Databases:** SQL, MongoDB, PostgreSQL, Vector Databases, DBever, SQL Server Management Studio

**Others:** Flask, Django, GraphQL, Pandas, Numpy, FastAPI, AWS, Azure, Docker, Kafka, RAG, LangChain, LLM, GIT

## WORK EXPERIENCE

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**Full Stack Developer, Shift AI, Toronto**

*May 2024 – Present*

- Built and optimized [shiftfleet.ai](#), an AI-driven fleet management website, increasing organic traffic by 30% and user engagement by 40% through SEO best practices and analytics integration.
- Modernized platform infrastructure by integrating CI/CD pipelines (GitHub Actions, Docker, Heroku) and AWS RDS for database scaling, reducing deployment time by 50% and improving system resilience.
- Developed and optimized a backend system using Django, GraphQL (with Graphene-Django), and PostgreSQL, enabling seamless fleet tracking and automating business workflows for fleet managers.
- Built and integrated the HouseStack chatbot using LangChain, LLM, and Retrieval-Augmented Generation (RAG), improving customer interactions and enhancing conversational AI performance by 25%.
- Optimized the chatbot's retrieval pipeline by implementing vector databases (FAISS) and prompt engineering techniques, improving response accuracy and reducing query latency by 40%.

**Full Stack Developer, Little Blessings Studio, Toronto**

*December 2023 – September 2024*

- Developed a React-based client interaction platform with FastAPI and Azure Blob Storage, improving efficiency and streamlining image delivery for clients.
- Automated photo organization workflows using Python scripts, reducing processing time from hours to minutes and boosting editor productivity.
- Designed a scalable web application, integrating robust cloud storage solutions for efficient handling of high-resolution media.

**Full Stack Developer, Decision Point**

*January 2022 – May 2023*

- Developed a custom Planogram tool using a Flask-based REST API with SQL Alchemy ORM and a React frontend to optimize product placement for an FMCG client, resulting in a 25% sales increase.
- Implemented Azure Active Directory-based OAuth 2.0 authentication for the Planogram tool to enhance secure data transfer and to reduce potential attack vectors.
- Utilized Azure App Service, Blob Storage, Storage Explorer, Active Directory, SQL Server, and Azure DevOps to deploy and maintain the tool and its database.
- Applied binary search algorithm and vectorization for data retrieval and business calculation process in the tool which reduced the retrieval time by 40%.
- Developed a price optimization tool by utilizing Pandas for efficient data processing and AWS Lambda for serverless calculations, enhancing system performance and scalability.
- Created a Cookie cutter template for the Price Optimization tool using Python to ensure code reusability which reduced development effort by 50%.

**Associate Developer, IBM/Kyndryl**

*September 2020 – December 2021*

- Developed an optimized onboarding portal for clients which reduced the onboarding time by 25%.
- Built a scalable backend architecture using Python, Django, and SQL that supports high concurrency.
- Utilized VMware vCenter to deploy and decommission over 100 servers.

## EDUCATION

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**Post Graduate Diploma in Full Stack Software Development**

*May 2023 – December 2024*

*Lambton College – Toronto, Canada*

**Bachelor of Technology in Information and Communication Technology**

*July 2016 – May 2020*

*SASTRA University – Thanjavur, India*