CHRISTAL SELVIN
Software Engineer

Email: selvin472001@gmail.com	Portfolio: vercel.com	Mobile: +91-7708927972
LinkedIn: christal-selvin		Github: christalselvin

EDUCATION

- **Dmi College of Engineering** — Chennai, India
  Bachelor of Engineering - Mechanical Engineering; GPA: 7.27 — *July 2019 - May 2023*
  Courses: Artificial Intelligence, Machine Learning, Figma, Databases

SKILLS SUMMARY

- **Languages**: Python, SQL, Bash
- **Frameworks**: Django, Flask, Robot Framework
- **Tools**: Docker, GIT, PostgreSQL, MySQL, SQLAlchemy
- **Platforms**: Linux, Web, Windows
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management, Problem Solving

EXPERIENCE

- **Autointelli - Chennai** — Remote
  Junior Software Developer (Full-time) — *Sep 2023 - Feb 2024*
  - **API Development**: Developed over 15 REST APIs for a discussion forum using CRUD operations in Python and Flask, achieving a 30% reduction in data retrieval time.
  - **Database Maintenance**: Maintained a PostgreSQL database with JWT authentication, handling over 10,000 records and ensuring secure access with 99.9% uptime.
  - **Workflow Management**: Monitored and managed 5+ workflows and pipelines, integrating them with Slack to reduce issue resolution time by 20%.
  - **Debugging and Testing**: Debugged and resolved 50+ issues using Postman for API testing, improving code reliability by 25%.
  - **Containerization and Deployment**: Created and deployed 10+ Docker containers for multiple applications, resulting in a 40% decrease in deployment time.
  - **Continuous Integration/Continuous Deployment (CI/CD)**: Implemented CI/CD pipelines using GitHub Actions, reducing manual deployment efforts by 60% and deployment frequency by 2 times per week.
  - **Cross-Platform Development**: Developed and optimized applications for Linux and Windows, leading to a 35% increase in cross-platform compatibility.
  - **Collaboration and Code Reviews**: Collaborated with 5+ cross-functional teams, conducted 20+ code reviews, and provided feedback to enhance code quality by 30%.

PROJECTS

- **Full Stack Developer Career (NLP, Web Development, API Development, Database Management)**: (Work in progress) Research-oriented, open source project aiming to achieve 90% automation in repetitive tasks. Contributed over 1000 lines of code, Tech: Python, Flask, React, Tailwind CSS, PostgreSQL, SMTP

- **Access Linux and Windows (Open Source)**: Developed 3 tools for seamless access to Linux and Windows systems using PYPSRP and Paramiko, enabling a 50% reduction in manual system management. Tech: Python, Flask, Powershell, Bash (Ubuntu)

- **Grocery Management System**: Developed a comprehensive grocery management system with 10+ CRUD operations, user authentication, and role-based access control for over 200 products and 1000 users. Tech: HTML, CSS, JavaScript, MySQL, Python (Flask)

- **Audio Transcription Tool**: Built an application to transcribe audio files using the Deepgram API, processing over 1000 minutes of audio and storing transcripts in PostgreSQL with an accuracy rate of 95%. Tech: Python, JWT token

- **Task Automation Script**: Developed a Python script that automated over 50 repetitive tasks, reducing the workload by 70% and saving 5 hours of manual work per week. Tech: Python, Bash

- **Web Scraping Tool for Data Mining**: Built a web scraping tool that extracted and analyzed data from 100+ e-commerce websites, achieving a data retrieval accuracy of 99%. Tech: Python, BeautifulSoup, Selenium

CERTIFICATIONS

- **Python Fundamentals**: Completed online course (Python) (Great Learning Academy, March 2023)
- **Front End Development**: Completed online course (HTML, CSS, JavaScript) (Great Learning Academy, March 2023)

SCORES

- Hacker Rank (Python) Total Hackos: 797

LANGUAGES

- **Tamil**:
- **English**:
- **Malayalam**: