



KANISHK AKASH D V

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Profile

Currently pursuing 5th year of 5-year Integrated M.Sc. Software Systems at PSG College of Technology. With 6-month backend internship at FourKites Inc. Seeking SDE Intern / Full-Time roles starting December 2026.

Education

PSG College of Technology <i>Integrated M.Sc. Software Systems (CGPA: 8.41/10)</i>	Coimbatore, Tamil Nadu, India 2021 – Present
Shree Sarasswathi Vidhyaah Mandheer <i>Higher Secondary, CBSE (95.60%)</i>	Mettupalayam, Tamil Nadu, India 2019 – 2021
Suguna PIP School <i>SSLC, CBSE (91.20%)</i>	Coimbatore, Tamil Nadu, India 2018 – 2019

Technical Skills

Languages: Python, C, SQL

Databases: MySQL, Oracle, PostgreSQL

Frameworks/Tools: Django, Flask, Streamlit, Git, Postman, Ruby on Rails

Operating Systems: Windows, Linux, Mac

Industry Experience

FourKites, Inc | *Software Developer Intern* June 2024 – Nov 2024

- Worked on backend components as part of the OTR team. Fixed bugs and developed features, unit tests, and automations.
- Developed production-level backend features in a microservices architecture in an agile environment .
- Collaborated with senior engineers to optimize code quality and reduce regression incidents.

Career Vision Embedded Academy | *Student Intern* April 2023 – May 2023

- Trained in Python full-stack development and game programming. Delivered mini-projects in both domains under supervision.

Projects

cBolt | *C, Memory-Mapped I/O*

- Implemented a custom, embeddable key-value database in C inspired by BoltDB.
- Built custom B+ tree, freelist management, node spill logic, and page-level ACID transactions from scratch.
- Achieved low-latency read/write operations with direct **mmap()** usage.

Chat Application | *Python, SQLite, Django*

- Developed a Django-based chat application akin to Discord, facilitating discussions in topic-specific rooms.
- Implemented user authentication, room creation, and topic-based discussions.
- Ensured secure restricted access to specific pages.

Smart Waste Classification | *Flask, PyTorch, Scikit-learn, Pillow*

- Developed a waste classification system using ML models (KNeighborsClassifier, SVM, GaussianNB, DecisionTreeClassifier).
- Created a Flask-based web interface (deployed with ngrok) for image upload and classification.

Flask RAG Chatbot Backend | *Google Generative AI, LangChain, Chroma, NLP*

- Developed a Flask-based RAG chatbot leveraging Google Generative AI, LangChain, and Chroma to process PDF, DOCX, and TXT files, enabling summarization, Q&A, and aspect-based analysis.
- Implemented end-to-end NLP pipelines with vector-based retrieval to deliver structured insights, demonstrating full-stack ML and data processing expertise.

Co-curricular Activities

- Participated in intra-college coding events and won consolation prizes.
- Represented school at Coimbatore Sahodaya-level basketball, swimming, and chess competitions.