

Sachintha Senanayake

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PROFILE

I'm a full-stack & AI engineer with over 2 years of experience working across Python, TypeScript and React. I specialize in connecting backend logic to intelligent systems, with UX in mind. I build GenAI agent workflows in LangChain, LangGraph, Google Cloud, Azure, and more. I'm great at designing APIs and building automations.

I'm framework agnostic, with my focus being on writing clear, testable code built for function over form. I'm fascinated by graphs and genetic algorithms, and I love reading fiction and research papers in my free time. I also teach computer science to secondary school students on weekends and make videos about it too.

EXPERIENCE

Gapstars @ Brompton Bicycle

Colombo, Sri Lanka

GenAI Engineer

Mar 2026 — Present

- Onboarded into Brompton's GenAI function, gaining cross-departmental context across IT, Marketing, Design Engineering and Manufacturing.
- Initiated evaluation of Microsoft Copilot, Claude Enterprise and Agentforce to inform a governance-first AI rollout strategy.

Teams Squared

Colombo, Sri Lanka

Engineering & IT Lead

Sep 2025 — Mar 2026

- Directed IT infrastructure, cybersecurity and policy rollouts to reach 100% device compliance.
- Conducted routine IT setup and troubleshooting for 30+ employees based in Sri Lanka, Philippines, India, South Africa and Nepal.
- Headed procurement of IT equipment to support core business operations.
- Reduced contractor onboarding time by 50% by standardising workflows and automations.
- Oversaw multi-stack engineering across FastAPI, Next.js and Prisma for internal platforms.

AI Developer & Researcher

Jun 2024 — Sep 2025

- Built and deployed agentic AI systems for contract management and drafting.
- Designed several agentic GenAI workflows for CV parsing, cybersecurity, cost estimation and more.
- Led SaaS, dashboard and automation builds that integrated Xero, Clockify and Zelt.
- Improved accuracy and retrieval speed with vector databases, graph RAG pipelines and targeted fine-tuning.
- Scaled deployments with observability and automated release pipelines.

Amplify Solutions

Remote

AI Software Developer

Sep 2023 — Nov 2024

- Delivered full-stack AI SaaS solutions for spice export, legal and telecom clients within an agile squad.
- Implemented serverless architectures and SSR with Next.js to reduce hosting spend and improve response times.
- Applied NLP algorithms and vector databases to serve retrieval-augmented pricing and product data with high precision.

Calcey Technologies

Colombo, Sri Lanka

Springboard Learner - Trainee

Jun 2023 — Jun 2024

- Completed an industry-focused program delivering 3 production-grade projects under senior mentorship.
- Built full-stack solutions in C, C++ and the MERN stack to meet client-style requirements.
- Earned the CodeCraft award in recognition of software engineering ingenuity and skill.

Gateway College Colombo

Colombo, Sri Lanka

SACE Level 2 - Assignment Curator

Dec 2022 — Dec 2023

- Curated and structured assignment briefs for 6 students aligned to SACE Digital Technologies standards.
- Introduced feedback rubrics that reduced manual marking time by 25%.

- Coached a student to the 95th percentile worldwide, earning entry into a top engineering programme.
- Supported the remaining cohort to score above 60% and secure engineering and computer science placements.

TheCSClass

Colombo, Sri Lanka

Computer Science & ICT - IGCSE & IAL Tutor

May 2021 — Present

- Privately tutored over 50 students with an 80% pass rate and 60% earning grade A or higher across Edexcel IGCSE and Cambridge IAL syllabi.
- Developed personalised learning materials such as pseudocode drills and coding tasks to raise exam readiness.
- Mentored students who now pursue engineering, mathematics and computer science degrees at global universities.

EDUCATION

University of West London

London, United Kingdom

Bachelor of Science (Hons), Information Technology

Pursuing · 2026

- Coursework: Managing Information Systems, Databases & Analytics, Business Intelligence, Enterprise Security Management

British Computer Society (BCS)

London, United Kingdom

Diploma (Level 5), Computing

Pass · 2025

- Coursework: Big Data Management, Databases, Professional Issues, Object-Oriented Programming (OOP)

Certificate (Level 4), Computing

Pass · 2024

- Coursework: Computer Networks, Information Systems, Software Development

Gateway College Colombo

Colombo, Sri Lanka

International Advanced Level

4As · 2022

- Coursework: Pure Mathematics, Chemistry, Physics, Computer Science

International GCSE

12A*s · 2016

- Coursework: Sciences, Humanities, Mathematics, English, Commerce and ICT

PROJECTS

LectureVoice Coach

6 months

React Native, TensorFlow Lite, PyTorch (Wav2Vec2), Python, Expo

- Mobile app analyzing and improving teachers vocal delivery with on-device speech AI.
- Extracts key speaking features to give actionable feedback privately.
- Designed for classroom use and supports offline inference.

Client Dashboard

3 months

FastAPI, TanStack Table, React, Render, shad.cn

- Data-driven dashboard for client and contractor operations at a multi-national ALSP.
- Integrates with Xero, Clockify and Zelt with typed contracts to aggregate data and provide insights.

Cybersecurity Report Generator

3 days

Python, BitDefender GravityZone API, PyMuPDF

- Integrated with BitDefender GravityZone API to retrieve detailed network information, vulnerabilities and risk scores.
- Processed and aggregated security data using Python.
- Generated comprehensive PDF reports by combining all information in a single document.

Clara

1 year

Next.js, FastAPI, tRPC, Azure AI, LangChain, PostgreSQL

- AI-powered SaaS for legal professionals to automate contract management and drafting.
- Integrates with Google Drive and SharePoint for shared document repositories.
- Utilizes agentic workflows with various prompting techniques and graph/vector databases.

Model Playground

1 week

Flask, Pandas, Numpy, React, Recharts, Tailwind

- Interactive visualizations for ML and DL models with live training.

- Supports hyperparameter tuning and BYO dataset uploads.

AWARDS

CodeCraft Award 2024

Calcey Technologies — Sri Lanka

- Awarded for demonstrating outstanding coding proficiency and technical leadership at Calcey's industry-focused scholarship program.

Merit - Asia Pacific ICT Alliance Awards 2021

APICTA — Asia Pacific Region

- Represented Sri Lanka and honored with a Merit Award, recognizing excellence in technology solution development at the global level.

Senior National Champion - YCS Competition 2021

FITIS Sri Lanka — Sri Lanka

- Achieved Senior National Champion at the Young Computer Scientist (YCS) Competition for an innovative mobile calorie detection application, featuring the use of an MR-CNN for object detection and segmentation.

Overall Champion - InnovaThon 2021 2021

Gateway College & Dialog Enterprise — Sri Lanka

- Led our team to victory in a school-wide innovation hackathon, featuring an AI-powered mobile app.

Silver Award - SLIIT Codefest 2021

Codefest — Sri Lanka

- Secured Silver at SLIIT Codefest, by building an e-learning platform with Python and vanilla JavaScript.

School Category Champion - Hack:AI 2021 2021

STEMUP, SLASSCOM & UNDP — Sri Lanka

- Won the school category at Hack:AI, an artificial intelligence hackathon organized by key national STEM groups.

Most Creative App of the Month 2017

MIT App Inventor — International

- Recognized globally for inventiveness with the Most Creative App, selected by MIT App Inventor in their monthly spotlight.

Junior Merit Award - YCS Competition 2017

FITIS Sri Lanka — Sri Lanka

- Awarded Junior Merit at the Young Computer Scientist (YCS) Competition for building a top-down space shooter game using MIT App Inventor.

SKILLS

Frontend	React, Next.js, Tailwind, TanStack Query, React Hook Form, Zod, TanStack Table, Recharts, D3.js
Backend	FastAPI, Flask, Pydantic, SQLAlchemy, Prisma ORM, Redis, OpenAPI, PyTest
Data & DevOps	Azure, Google Cloud, Render, GitHub Actions, PostgreSQL, SQLite, Firebase, R, Pandas, NumPy, Matplotlib
ML & Automation	NLTK, scikit-learn, OpenCV, LangChain, LangGraph, Hugging Face, LlamaIndex, Gradio, Google Colab, n8n, Vercel AI SDK, Altair AI Studio
Other	Godot Game Engine, C/C++, Arduino, Git, Bash