

Cliford Joshy

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EDUCATION

National Institute of Technology, Calicut Bachelor of Technology in Computer Science and Engineering CGPA: 9.11	Calicut, India 2019 – 2023
Bhavan's Vidya Mandir, Girinagar Higher Secondary School Aggregate (AISSCE): 96%	Kochi, India 2017 – 2019
GEMS Our Own High School Secondary School CGPA (AISSE): 10	Dubai, UAE 2012 – 2017

EXPERIENCE

D. E. Shaw India	Bengaluru, India
Senior Member, Tech Core Tech	Jan 2025 – Present
• Worked in the GAITech team to build and maintain tools and apps that enable and integrate Generative AI in existing workflows	
• Architected and implemented micro-services and features across applications	
• Worked on low-level enhancements to vector databases such as FAISS and Milvus	
Member, Tech Systems	July 2023 – Dec 2024
• Worked in the Application Engineering team to develop and maintain internal tooling and libraries	
• Developed REST APIs and worked with various orchestration tools such as K8s, Helm and Docker	
Intern Systems	May 2022 – July 2022
• Developed a native mobile application expanding the use of various in-house tools	
Storilabs System Technologies	Calicut, India
Intern	May 2021 – May 2022
• Worked on a subscription management application on Shopify using React and GraphQL APIs	

PERSONAL PROJECTS

Toy Compiler ↗ Haskell	
• A compiler for an object-oriented toy programming language	
Rubik's Cube Solver ↗ C++	
• Generates the solution for any shuffle in under 45 moves using the Thistlethwaite algorithm	
Rajpath RECalls App ↗ Java, Firebase	
• A native Android application built for the college radio that streams audio from a web radio	
Tathva/Ragam Websites ↗ Strapi, Postgres, nginx	
• REST APIs for college fest websites to handle event registrations, submissions, payments, team management, hostel allocation and other requirements.	
• Handled upwards of 10,000 unique registrations on each site	
Chess Bot ↗ C++, Win32	
• A single-player chess game that works using the minimax algorithm	
• Implemented a Windows native GUI using the Win32 API	

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, C/C++, Bash, Go, Haskell

Frameworks: React, FastAPI, ExpressJS, Android SDK, React Native

Tools: Git, GitHub Actions, Docker, Kubernetes, Helm, SQL Server, Postgres