

CAREER OBJECTIVE

Computer Science student with a strong foundation in programming, logical thinking, and building efficient, scalable solutions. Eager to apply my skills in real-world development environments, contribute to impactful projects, and continuously learn from hands-on experience in challenging and collaborative settings.

EDUCATION

Degree/Certificate	Institute/Board	CGPA / Percentage	Year
B.Tech (Computer Science and Engineering)	IIT, Palakkad	8.70 (Current)	2022-Present
Class XII	Hill Blooms School	96%	2021
Class X	St. Patricks Higher Secondary School	95%	2019

TECHNICAL SKILLS

- **Backend**
Node.js, PostgreSQL
- **Frontend**
Angular, HTML, CSS, JavaScript, TypeScript
- **Tools and Platforms**
Git, OpenGL, GLEW, glm, Unity 3D
- **Programming Languages**
C, C++, C#, Python

PROJECTS

- **Project Allocation Portal** Jan 2025 to May 2025
Prof. Garima Shakya
OELP
Built a web application for students and faculty to apply for and manage projects. Implemented student and faculty preference-based allocation using the Gale-Shapley algorithm its variations. [Link](#)
- **RISC-V Compiler for .sil Language** Jan 2025 to May 2025
Prof. Unnikrishnan Cheramangalath
Lab project
Built a compiler for the .sil language with full pipeline: lexical analysis, parsing, AST and symbol table construction, semantic analysis, and RISC-V assembly code generation. [Link](#)
- **OpenGL Solar system and supernova simulation** Mar 2025 to May 2025
Prof. Avirup Mandal
Course project
Designed and implemented a real-time 3D supernova simulation using OpenGL, featuring dynamic particle generation, motion, and lighting effects.

- Model Checker for CTL Logic** Mar 2025 to May 2025
 Prof. Jasine Babu
 Course project
Developed a model checker for CTL logic. Implemented the bottom-up CTL model checking algorithm that outputs the subset of states of Kripke structure that satisfies the CTL formula [Link](#)
- ERP System** Aug 2024 to Nov 2024
 Prof. Albert Sunny
 OELP
Developed some frontend modules for the academics and ICSR sections of an in-house ERP for the institute, using frontend frameworks Angular and bootstrap. The ERP is expected to automate all the academic and admin processes in the institute. Modules were split into Academics, Administrators, Admissions, Research, ICSR, Purchases and accounts. [Link](#)
- Pipeline modifications on RISC-V-CVA6 core** Feb 2024 to May 2024
 Prof. Sandeep Chandran
 Course project
Analyzed CVA6s original 6-stage pipeline and identified all pipeline dependencies and attempted simplification of the CVA6 Core by removing pipeline stages.

TRAINING AND WORKSHOP

- Immersive Realities: Demystifying AR, VR, and HCI** Jun 2025
 ACM India - Summer School 2025, Flame University

POSITIONS OF RESPONSIBILITY

- Deputy head of Akshar**
Organising and managing literary events conducted by the literary arts club, Akshar.
- Core team member - Voxel**
Organise and manage digital arts events
- YACC associate**
Organise and manage the technical events held by YACC (coding club at IIT Palakkad).

EXTRA CURRICULAR ACTIVITIES

- Member of YACC**
Active participation in intra-college coding competitions and bootcamps