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# Dev Rajiv Kansara in

Seeking Software Development Intern role at Trilogy Innovations and apply strong problem-solving and programming skills to build impactful and scalable solutions.

EDUCATION								
Year	Degree	University/Board	Institute	% / CGPA				
Pursuing	BTech in Computer Science and Engineering	Ahmedabad University	School of Engineering and Applied Science	3.76/4.00 CGPA				
2023	HSC (Science)	Gujarat Secondary and Higher Secondary Education Board (GSEB)	St. Francis of Assisi Convent High School, Navsari	91.84 %				

#### EXPERTISE/AREA OF INTEREST

- Data Structures and Algorithms
- Competitive Programming & Problem Solving
- Software Development

#### INTERNSHIPS

MICA University, Ahmedabad

Jun'25 - Jul'25

#### Ghaziabad NH9 Cattle Problem - Prompt Engineering Game

- Developed an interactive web application for a prompt engineering game, simulating real-world traffic problems with separate student/professor interfaces.
- Implemented real-time data synchronization using Firebase Firestore for instant updates across devices for prompt submissions and evaluations.

CERTIFICATIONS	
Introduction to RISC-V (LFD110) Gained a solid understanding of the open-source RISC-V Instruction Set Architecture (ISA). I learned to program using RISC-V assembly language, enhancing my low-level programming skills and foundational knowledge of computer architecture.	May'25
Career Essentials in Software Development by Microsoft and LinkedIn  This comprehensive program significantly enhanced my understanding of core programming principles, software development methodologies, and industry best practices. I gained valuable insights into the full software development lifecycle, from conceptualization to deployment, and refined my abilities in writing efficient and scalable code.	Aug'24

ACHIEVEMENTS AND ACCOMPLISHMENTS	
University Merit Scholarship Received merit-based scholarship for consistent academic excellence in first and second year of B.Tech, recognizing top academic performance.	Aug'23 May'25
Student Mentorship & Guidance Mentored high school students as District Topper (HSC 2023) at SFA Convent High School, sharing strategies for academic success and goal achievement, demonstrating communication and leadership skills.	May'25

### PROJECTS

Ahmedabad University Feb'25 - Apr'25

## Five-Cycle Non-Pipelined RISC Processor (25-bit) – Verilog HDL

Summary: Implemented a 25-bit RISC processor in Verilog HDL (five-stage non-pipelined), Designed ALU, Control, and Output Logic and integrated all modules for functionality.

Skills Used: Verilog HDL, Microchip Studio, OshonSoft AVR Simulator, EDA Playground

Team Size: 4

**Key Outcomes:** Successfully designed and integrated 25-bit RISC processor modules (ALU, Control, Output Logic) in Verilog, demonstrating advanced computer architecture and HDL proficiency.

Ahmedabad University Feb'25 - Mar'25

#### Randomized Route Optimization in Decentralized Traffic Networks

**Summary:** Developed randomized route optimization for traffic networks using a Boltzmann-like Randomized A\* algorithm. Focused on mathematical modeling and problem formulation with Python.

Skills Used: Python, Google Colab, GitHub, Probability Theory, Graph Data Structure, Randomized A\* algorithm

Team Size: 5

**Key Outcomes:** Implemented Randomized A\* for route optimization; modeled problems with Python and Graph Data Structures and enhanced understanding of probability theory in networks.

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and solve them using simple solutions.

POSITIONS OF RESPONSIBILITY				
Competitive Programming Team Member  Contributed to a collaborative learning environment, strengthening team's competitive programming abilities by posting complex Data Structures and Algorithms problems with solutions	Aug'24 - May'26			
EXTRA CURRICULAR ACTIVITIES				
University Volleyball Team (Right Spiker) Represented Ahmedabad University as a right spiker in inter-university competitions and also selected for Gandhinagar District Team balancing athletics with academics.	Aug'24 - Apr'25			
CO-CURRICULAR ACTIVITES				
Volunteer, TIDE (Together in Development and Education) Foundation Volunteered 30 hours at TIDE Foundation, guiding government school students to identify local social problems	Mar'25 - Apr'26			

TECHNICAL SKILLS	
Languages: Java, Python, C, RISC-V Assembly, Verilog Hardware Description Language, JavaScript	
Tools / Technologies: Git/GitHub, HTML, CSS, VS Code, Eclipse IDE, LaTeX, Oshonsoft AVR Simulator IDE, Microchip Studio	
Softwares: Microsoft Word, MS Excel, MS PowerPoint	
Framework / Libraries: Spring, J2EE (JSP's and Servlets), NumPy, Pandas, Matplotlib	

Online Professional Presence		
GitHub	https://github.com/DevKansara97	
LeetCode	https://leetcode.com/u/Dev_Kansara97/	
Codeforces	https://codeforces.com/profile/Dev_Kansara	

PERSONAL DETAILS	
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