

# Aditya Swami

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EDUCATION			
Year	Qualification	Institute	% / CGPA
2019-20	Class X (ICSE)	Shri Ram Centennial School, Dehradun, India	97.8 %
2021-22	Class XII (ISC)	Shri Ram Centennial School, Dehradun, India	99 %
2022-present	BSc. Computer Science	Krea University, Sricity, India	8.82(Jan'25)
Relevant Core Modules		Letter Grade	
Network Security		A	
Computer Vision		A-	
Mathematical Foundations of Computer Science III		A	
Machine Learning		A-	
Paradigms of Programming II: Functional Programming		A+	
Introduction to Statistical Programming		A	
Database Management Systems		A-	
INTERNSHIPS			
Research Intern	<ul style="list-style-type: none"><li>Worked as a Research Intern at Krea University</li><li>Worked alongside 2 other students with Prof. T.V.H. Prathamesh, Prof. Syed Mohammad Meesum from Krea University, and Prof. D. Divakaran from Azim Premji University to learn the fundamentals of proof formalization using Isabelle, Isar, type theory, set theory, and HOL.</li><li>Used that knowledge to completely mechanize the proof of Dilworth's theorem in Isabelle'24.</li><li>Gave a talk about our work at Azim Premji University's Science Undergraduate Research Conference in Dec'24.</li><li>Published a paper on our proof in the Isabelle Archive of Formal Proofs on 25 Mar, 2025.</li><li>Publication: <a href="https://isa-afp.org/entries/Dilworth.html">isa-afp.org/entries/Dilworth.html</a></li></ul>		May'24-Mar'25
UI/UX Intern	<ul style="list-style-type: none"><li>Worked as a UI/UX Intern at VMentor.AI</li><li>Designed and prototyped web and mobile interfaces in Figma</li><li>Collaborated with developers to understand best industry practices</li><li>Improved user experience through research and iterative testing</li></ul>		May-Jul'23
PROJECTS			
RecipEasy – Recipe Search Engine	<ul style="list-style-type: none"><li>Developed a Python program enabling users to create and store entries, and execute filtered searches within a recipe database.</li><li>Learned to manipulate data structures in Python and retrieve and send information to external JSON files.</li><li>Built a text-based interface to interact with the program, complete with user-friendly commands.</li></ul>		May'23
Budgie – Budget Allocator App	<ul style="list-style-type: none"><li>Worked as part of a student group to create a mobile app in Flutter that helps its users to inculcate a budgeting habit by using a custom algorithm to allow them to structure a budget based on monthly expenses.</li><li>Learned to use the Flutter framework on the Dart programming language to build an interactive and dynamic mobile application.</li></ul>		Feb'23
Spawnpoint	<ul style="list-style-type: none"><li>Worked collaboratively with a partner under the name “Sharks in Suits” to create a website as a submission for WebCENTRIC at EVOLUTION'22, an online Website Development competition.</li><li>Created an online web store for our submission.</li><li>Learned to apply CSS frameworks to augment HTML/JS based website.</li></ul>		Jan'22
SRCS Spark	<ul style="list-style-type: none"><li>Worked collaboratively with a partner to create a website to facilitate registration and communication for SRCS Spark 2021, an interschool fest encapsulating multiple events.</li><li>Learned to use Git and GitHub to streamline cooperative workflow.</li><li>Used an HTML/CSS/JS stack to develop and Netlify to deploy the website.</li></ul>		Jul'21
ADDITIONAL INFORMATION			
Volunteer Experience	<ul style="list-style-type: none"><li>Facilitated academic mentorship at Rotary Club of Madras in 2024 under the Boystown Teaching Initiative, a student-led social outreach initiative, guiding middle and high school students through linguistic learning.</li></ul>		
Technical Skills	<ul style="list-style-type: none"><li>Proficient in programming languages like R, Python, JavaScript, Java, C, Haskell, Isabelle, Isar, MySQL, HTML/CSS, Pyret, Flutter, Dart.</li><li>Skilled at logic-driven applications of programming languages.</li><li>Comfortable using Git and GitHub.</li></ul>		
Personal Interests and Hobbies	<ul style="list-style-type: none"><li>Public Speaking: Participated in MUNs and debates regularly since early high school.</li><li>Basketball: Member of Krea Men’s Basketball Team. Basketball Head at Krea University.</li><li>Other Personal Hobbies: Dance, Art, Trekking.</li></ul>		