

# KISHLAYA JAISWAL

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Chennai Mathematical Institute  
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<b>OBJECTIVE</b>	Third year undergrad, an avid researcher in most disciplines of science, with focused interests in advanced mathematics and software programming. Continually seeking opportunities to advance knowledge in areas of math, engineering and latest in emerging technology	
<b>EDUCATION</b>	<i>High School:</i> St. Fidelis College (Percentile 89.6)	2012-15
	<i>Bachelor of Technology (partial):</i> Computer Science & Engineering (Overall GPA 9.9) Indian Institute of Information Technology	2015-16
	<i>Bachelor of Science (Honours):</i> Mathematics & Computer Science (Current GPA 9.2) Chennai Mathematical Institute	2016-present
<b>RESEARCH INTERESTS</b>	Algebraic Geometry, Commutative Algebra, Galois Theory, Analytic Number Theory, Topology, Riemann Surfaces, Functional Programming, Algorithms, Machine Learning, Data Mining	
<b>COURSEWORK</b>	<i>Mathematics:</i> Linear Algebra, Group Theory, Ring and Field, Module Theory, Galois Theory, Commutative Algebra, Lie Group Theory, Representation Theory, Topology, Real Analysis, Complex Analysis, Riemann Surfaces, Calculus, Differential Equations, Probability Theory, Measure Theoretic Probability, Discrete Mathematics, Analytic Number Theory	
	<i>Computer Science:</i> Functional Programming (Haskell), Advance Programming (Python), Design and Analysis of Algorithms, Theory of Computation, Programming Language Concepts, Data Structures and Algorithms, Computer Architecture	
	<i>Others:</i> Classical Mechanics, Linguistics, English	
<b>TECHNOLOGY SKILLS</b>	<i>Programming Languages:</i> Haskell, Julia, Javascript <i>Operations Technologies:</i> AWS, Docker, CI/CD <i>Web Backend Technologies:</i> HAProxy, NodeJS, MongoDB, PostgreSQL, Redis, Sendgrid, MailTrap, SocketIO <i>Web Frontend Technologies:</i> Elm, ReactJS, Bootstrap, SASS/SCSS, Gulp, Bower, NodeJS, CoffeeScript, Google Poylmer <i>Typesetting Systems:</i> XML, $\text{\LaTeX}$	

<b>EXPERIENCE</b>	<i>Julia Intern</i> <div> AimsQuant, Delhi <ul style="list-style-type: none"> <li>Integrated fundamental data stock for extending financial research operations</li> </ul> </div>	June 2018 - Present
	<i>Haskell Intern</i> <div> Vacation Labs, Goa <ul style="list-style-type: none"> <li>Built a real-life customer-facing project in Haskell</li> <li>Introduced Elm into the tech-stack as a side effect</li> </ul> </div>	May 2018 - July 2018
	<i>Backend Engineering Intern</i> <div> AimsQuant, Delhi <ul style="list-style-type: none"> <li>Developed forward testing of investment strategies</li> <li>Created a backend request scheduler</li> <li>Integrated IJulia/IPython interactive notebook in the web-app to facilitate interactive financial research</li> </ul> </div>	June 2017 - July 2017
<b>HONORS AWARDS</b>	<i>Kishlaya's Identity</i> Published a new mathematical result	
	<i>State Level Qualifier</i> Regional Mathematical Olympiad 2013	
	<i>Gold Medalist</i> SOF's International Mathematical Olympiad SOF's National Cyber Olympiad	
	<i>Silver Medalist</i> SOF's National Science Olympiad	
<b>COMMUNITY SERVICE</b>	<i>Web Dev</i> <div> College Tech <ul style="list-style-type: none"> <li>Developed college website</li> </ul> </div>	2015 - 2016
	<i>Problem Writer</i> <div> Proofathon <ul style="list-style-type: none"> <li>Helped to create online mathematical contest for high school students</li> <li>Contributed to problem writing and website development</li> </ul> </div>	2014 - 2016
<b>EXTRA- CURRICULAR ACTIVITIES</b>	<i>Teaching Assistant</i> <div> Functional Programming in Haskell by NPTEL (National Programme on Technology Enhanced Learning) </div>	January 2018 - April 2018
	<i>Teaching Assistant</i> <div> Advanced Programming, instructed by Prof. Samir Datta </div>	January 2018 - April 2018
	<i>Teaching Assistant</i> <div> Programming in Haskell, instructed by Prof. S P Suresh </div>	August 2017 - December 2017
	<i>Adventures of The Mind</i> <div> Achievement-focused mentoring camp for the most promising high school students  Got selected and sponsored by Brilliant.org </div>	August 2015