

KISHLAYA JAISWAL

Chennai Mathematical Institute
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OBJECTIVE 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

EDUCATION *High School:* 2012-15
St. Fidelis College (Percentile 89.6)

Bachelor of Technology (partial): 2015-16
Computer Science & Engineering (Overall GPA 9.9)
Indian Institute of Information Technology

Bachelor of Science (Honours): 2016-present
Mathematics & Computer Science (Current GPA 9.2)
Chennai Mathematical Institute

RESEARCH INTERESTS Algebraic Geometry, Commutative Algebra, Galois Theory, Analytic Number Theory, Topology, Riemann Surfaces, Functional Programming, Algorithms, Machine Learning, Data Mining

COURSEWORK *Mathematics:* 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, Analytic Number Theory

Computer Science: Functional Programming (Haskell), Advance Programming (Python), Discrete Mathematics, Design and Analysis of Algorithms, Theory of Computation, Programming Language Concepts, Implementation of FP Languages, Data Structures, Computer Organization

Physics: Classical Mechanics, Basic Electronics, Electrical Circuit Analysis, Digital Design

Others: Linguistics, English, Environmental Sciences

TECHNOLOGY SKILLS *Programming Languages:* Haskell, Julia, Python, Javascript, Mathematica
Operations Technologies: AWS, Docker, CI/CD
Web Backend Technologies: NodeJS, MongoDB, PostgreSQL, Redis, Sendgrid, MailTrap, SocketIO, HAProxy
Web Frontend Technologies: Elm, ReactJS, Bootstrap, SASS/SCSS, Gulp, Bower, NodeJS, CoffeeScript, Google Poylmer
Typesetting Systems: XML, \LaTeX

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