

Rajat Mehndiratta

GITHUB rajatscode **LINKEDIN** /in/rajatsprofile **WEBSITE** rajats.site **E-MAIL** r@jats.email **LATEST RESUME** rajatsresu.me

Skills	Languages: Python, Java, C, JavaScript, MATLAB, SystemVerilog, HTML, CSS, Swift, Hack, bash, VimL Libraries: React Native, Vue, Angular, Redux, Bootstrap, Bulma, Flask, TensorFlow, Keras, Sonnet, Guava Tools: git, hg, p4, CI/CD, Agile workflow, Amazon Web Services, Google Cloud Platform, Azure, LaTeX Natural Languages: English (fluent), Hindi (native), Spanish (conversational)	
Experience	Software Engineer	June 2019 - present
	Fleet Transformation (Unified Fulfillment Optimization), Google	
	Solving compute, network, and storage planning challenges at Google scale. Working on later-stage planning logic, implemented and landed automated workflows to detect and handle no-longer-viable solutions, increasing touchlessness. Designed and delivered components of look-ahead logic for planning with counterfactuals to increase on-time fulfillment and reduce need for manual intervention.	
	Software Development Engineer Intern	May - August 2018
Education	Topline Forecasting (Supply Chain Optimization Technologies), Amazon.com	
	Investigated, proposed, and implemented serverless AWS solutions to reduce compute costs of forecasting team by 10x-100x. Based on engineers' and economists' large-scale workflow requirements, developed definition schemas, built workflow runners, and generated over 150 pages of documentation.	
	Software Development Engineer Intern	May - August 2017
	Robotics (Worldwide Operations), Amazon.com	
Projects	Explored and validated deep reinforcement learning approaches for visual navigation in the context of sidewalk delivery (Amazon Scout). Drove data-gathering, simulation, and performance metrics efforts.	
	Carnegie Mellon University	May 2019
	Bachelor of Science, Electrical and Computer Engineering	
	Coursework: Advanced Mobile Robot Development (16-865), Advanced Digital Signal Processing (18-792), Introduction to Machine Learning (10-601), Rapid Prototyping of Computer Systems (18-540), Introduction to Computer Architecture (18-447), Natural Language Processing (11-411), Neural Technology: Sensing & Stimulation (18-412), Logic Design and Verification (18-341), Entrepreneurship for Engineers (70-420), Business Law (70-364), Organizational Behavior (70-311) Involvements: hackathons (competitor, mentor, organizer, and sponsor), Mock Trial (Captain), SDC Buggy (carbon-fiber gravity racing; Mechanic), End The Rain (umbrella dispensers; Co-Founder, Tech Lead)	
Projects	Nemosi (18-540 Class Capstone)	January - May 2019
	Chief Architect, Wireless Networking Lead	
	Drove architecture design, explored wireless networking options, and worked with designers, engineers, and scientists to prototype technological solutions to increase independence of Alzheimer's patients.	
	SCOT-T Lunar Rover (16-865 / CMU+Astrobotic Lunar X Prize Rover)	January - May 2016
Projects	Engineer on Communications, Hardware, and UI Teams	
	Worked on development and testing of UDP-based communications system for 4.5kg Cube Rover standard; formalized and documented sensor architecture; revised interface design and usability guidelines.	
	SpitBars (Kent Hack Enough 2015 First Place)	October 9-11, 2015
	Hackathon Competitor	
Projects	Built algorithmic analysis for freestyle rap using natural language processing in order to create game where two players could compete in rap battles and visualize their rhythm and flow.	
	FifthSense (PennApps Fall 2015 Grand Prize)	September 6-8, 2015
	Hackathon Competitor	
	Devised and built handheld bidirectional input/output device to allow severely visually-impaired people to use smartphones and portable smart devices conveniently and efficiently within highly mobile contexts.	