# SAMARTH CHUGH

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**(WEBSITE)**

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## WORK EXPERIENCE

**Feb 23 to Present | State Farm | Lead Software Engineer**

• Instrumental in creating a containerized server-driven application hosted on AWS and serviced by Scalr pipelines for automated deployments which helps process all changes on existing business policies - about 50% of all modernized policies annually.

• Developed a customer facing backend application deployed in AWS ROSA with federated GraphQL schema as a first project for GraphOS enterprise wide adaption supported with DynamoDB.

• Created API for email functionality and logging features across Adobe Analytics and Salesforce.

• Improved DevOps across multiple projects by developing robust pipelines for productions with release versioning, scheduled outlets for adhoc fixes, vulnerability scans with SNYK, and streamlined Gitlab communication with Agility.

• Spearheading AI solution intake across suite - leading a virtual team of 10 engineers work on multiple $1M+ business outcome projects. Stewarding engagement across departments, presentation to directors, analysing cost and risk in detail and creation of integrated and standalone application solutions.

• Worked in a technical architect capacity to solve data pipeline issues affecting 40% of all policies involving payments, helped improve suite documentation and conducted multiple technical feasibility assessments.

**Mar 21 to Jan 23 | State Farm | Software Developer**

• Developed and maintained micro-frontend arch driven applications based on React with backend in Java and using GraphQL for APIs for intake of all new business policies - affecting over 50% of all states serviced by State Farm annually.

• Created a Node.js package to be consumed by multiple product teams using data from a Java based policy management system - helped trim year long delivery timeline by a month.

**Dec 19 to Mar 21 | Allstate Insurance - Infosys | Associate Software Developer (Power Programmer)**

• Full stack web developer working with Java (Spring) and MEAN stack.

• Revamped data intake processes to save 100+ hours monthly with automation scripts in Python.

**May 17 to Mar 19 | Research in Data Science and Networking**

• Researched Bayesian Decision Networks in health care systems under a Stanford professor involving exploration, cleaning and processing of over 35 GB of data.

• Created interactive web-application in R to aid with data visualization. Published papers in Wiley and AAAI 19.

• Researched existing models in delay tolerant networks and implemented improvements (up to 80% efficiency) and invented new models (up to 200% efficiency) through a system written in Java.

• Networking papers published in Springer and PGDC 18.

## EDUCATION

B.E. in Information Technology – 4.0/4.0 GPA - NSIT, Delhi, India (Top 10 Engineering College in country)

## SKILLS

AWS CCP, Java, GraphQL, Python, MERN Stack, Angular, Typescript, SQL, C++

- Email feature for Datagate, 3rd party integrations (external services using API - atlas), ECRM connection - helps with metrics and agreement events across 3 teams and testing in dev, kickouts - dev and test, documentation with faqs. Whole effort involved agency, dev and design team collaboration. Explain datagate in general - ROSA, aws, graphOS, e2e and gunits. Delivered customer facing app and ensured accurate information to agents and analysts for tracking. DynamoDB.
- SBLE - streamlined communication with agility integration, pipelines for production with release versions, adhoc fixes and stale branch cleanup, learned detailed business expertise and attention to detail helped resolve a lot of issues beforehand - coverage ui determinant package, SNYK vulnerability setup and product support, unleash configuration
- Streamlined AI solutions intake across all of BL - engaging different areas and enabling by setting up a virtual team - stewarding multiple ideas by analysing risk to the company, detailed cost analysis (expense and gain), understanding data sources and presenting to staff, creating applications and deploying them internally - integrated and standalone apps, used LLM APIs and implementing traditional model photo solutions - multiple use cases with over $1M business outcome
- Architecture - worked in a tech arch capacity to understand data requirements and solve a data pipeline problem (affecting 40% BOP payment errors), helped with documentation across suite, updated some topology/arch diagrams and conducted multiple tech feasibility assessments.

Mentored a couple fresh engineers

**Jan 19 to Mar 19 | Stanford University | Data Science Intern | Antimicrobial Resistance** • Found answers to mitigate antimicrobial resistance in various countries using Bayesian Decision Networks. • Explored, cleaned and merged over 35 GB of data collected from 5 different sources in R.

**Jun 18 to Oct 18 | Stanford University | Data Science Intern | Addressing Health Inequalities in the U.S.** • Developed actionable interventions to promote longevity of life and explore causes of health inequality. • Created an interactive web-application in R to aid the visualizations.

• Used Bayesian Decision Networks to find outcomes such as, annual lipid testing in the diabetic population being the most influential preventive care to maximize life expectancy.

• Published paper at AAAI 19 | GitHub

**Aug 18 to Oct 18 | Author – Book Chapter | Statistical Methods: Introduction and Various Concepts** • Provided an introduction to descriptive and inferential statistical methods.

• Accepted at Intelligent Data Analysis, Wiley | Chapter

**Jun 18 to Sept 18 | University of Delhi | Research Assistant | Acknowledgment System** • Improved networking efficiency up to 80% in delay tolerant network protocols through an acknowledgement system without affecting the underlying routing procedure.

• The system was written in Java and supports all protocols along with backward compatibility. • Paper published at PGDC 18 | GitHub

**May 17 to Aug 18 | University of Delhi | Research Assistant | Supernode Routing Protocol**

• Developed a new protocol in Java for sparse network environments.

• Improved networking efficiency up to 200% by minimizing resource utilization while dividing the network area into grids and forwarding the messages with the help of GPS.

• Paper published in AIHC Journal, Springer | GitHub

**2016 Freelance | Web Development | Front End**

• Made landing pages, blogs and showcased events for clients and college.