

# PURVA SINGH

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## Education

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### Georgia Institute of Technology

*MS Computer Science*

Aug 2021 – May 2023

Atlanta, GA

### Vellore Institute of Technology

*BTech Computer Science and Engineering, GPA: 8.55/10*

Aug 2014 – May 2018

Vellore, India

## Experience

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### Georgia Institute of Technology

*Graduate Research Assistant*

Sept 2021 – present

Atlanta, GA

- **Empowering Local Heroes:** Working with Professor Catherine Ross to build technologies to empower Puerto Rican STEM-focused youth organizations.

### J.P. Morgan Chase & Co.

*Associate*

Feb 2021 – Jul 2021

Bangalore, India

- **Data Reconciliation:** Application to recon data between Raw and Conform tables across intra-cluster/data-center, as a part of disaster recovery mechanism. Wrote extensive unit and integration test-cases in Python to minimize deployment failures.

### J.P. Morgan Chase & Co.

*Software Engineer*

Jul 2018 – Jan 2021

Bangalore, India

- **Financial Data Movement:** Developed python-based Ingestion Enqueue framework for seamless data movement between various source systems and HDFS with edge node resiliency. Eliminated critical dependency on Kafka and a legacy file-mover mechanism.
- **Security:** Introduced a token-based authentication and authorization mechanism in all the applications written in Scala, that replaced legacy authentication mechanism firm-wide.
- **Recommendation Engine:** Application developed to optimize production incident response time which helped to save 2 hours per employee daily and 12 hours in total for the support team. Received **SEP Recognition Award (J.P. Morgan)** for the same.
- **Portfolio Management:** Created an intelligent framework to generate client-specific report based on company's 10-K statements, financial news articles and social media posts.

### J.P. Morgan Chase & Co.

*Software Engineer Intern*

Jan 2018 – Jun 2018

Bangalore, India

- **DevOps Framework:** Developed an interactive framework using Scala and Angular, which served as a monitoring interface and provided actionable insights to minimize the production incident efforts. It consists of microservices like events service, process monitor, notification alerts etc.
- **Chat Bot:** Application for L-3 support using RASA NLU for automatically resolving a set of user queries.

## Leadership

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### Force For Good

*Technology Expert*

2018 – 2020

J.P. Morgan Chase & Co., India

- **Rural Caravan:** Built a word-press website for the NGO's administration team.
- **EnAble India:** Enhanced their android application, Encare, with multi-language support and deployed various bug-fixes. Recipient of **Center of Excellence Award (J.P. Morgan)** for my contributions towards Tech for Social Good.
- **Among Pragati:** Created a web application to train differently-abled children for data-entry jobs.

### Grace Hopper Conference, India

*Speaker*

2019

AnitaB.org, India

- Conducted a 90 minutes workshop on **Ethical Hacking and Penetration Testing**, for 120+ participants.
- **First person** from J.P. Morgan to speak at the Grace Hopper Conference, India.
- Collaborated with **AWM Tech Diversity & Inclusion Committee** at J.P. Morgan to conduct various workshops globally on demystifying technical writing and paper presentation at the Grace Hopper Conference.

## Technical Skills

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**Languages:** Python, C++, C, Scala, HTML/CSS, SQL

**Developer Tools:** Git, Github, IntelliJ, Jupyter, PyCharm, Xcode, Jenkins

**Certifications:** AI for Trading (Udacity), Natural Language Processing (Udacity), Deep Learning (Udacity)