PURVA SINGH

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Education

Georgia Institute of Technology

MS Computer Science

Vellore Institute of Technology

BTech Computer Science and Engineering

Technical Skills

Languages: C++, Python, Scala Web technologies: ReactJS, Angular, Apollo Client, GraphQL, Ruby on Rails, Figma Code Scanning: SonarQube, Blackduck, SSAP SDLC: Agile, Confluence, Jira, Scrum, Shortcut Tools: Git, Github, Bitbucket, Visual Studio Code, Jenkins, Jest, Chromatic

Achievements

Meta Global Hackathon, 2022: Ranked 141 amongst 3000+ students globally and 18 in North America region.

Grace Hopper Conference, India (GHCI), 2019: Conduced 90 minutes hands-on workshop on ethical hacking and penetration testing for 120+ participants. First person from J.P. Morgan to be selected as a speaker at GHCI.

Experience

Chan Zuckerberg Initiative (CZI)

Software Engineer Intern | ReactJS, Apollo Client, GraphQL, Ruby on Rails, Figma May 2022 - Aug 2022

- Built content favoriting feature for CZI's Along tool that allows teachers to mark Along's resources as favorite and view their favorited content in a separate page.
- Generated Active Record Migrations to evolve Along's existing schema to support content favoriting. Implemented polymorphic associations and wrote extensive test cases in Ruby.
- Created **GraphQL** query type to describe different types of content that can be queried and wrote mutations to allow teachers to favorite or unfavorite a library resource.
- Leveraged GraphQL to fetch data related to content favoriting to be displayed on UI. Implemented UX-approved layouts using **Apollo Client** with **ReactJS** as framework.

J.P. Morgan Chase & Co.

Associate Software Engineer | Python, Geneos, Jenkins

- Built a python-based tool to recon data between Raw and Conform tables across intra-cluster/data-center.
- Leveraged Python data structures (dataframes) and libraries (Pandas, NumPy, requests) for data transformations.
- Published recon data for real-time monitoring on Geneos.
- Wrote extensive unit and integration test cases using Python's testing libraries (unittest).
- Performed code quality/coverage checks using SonarQube, and remediated code vulnerabilities via SSAP and BlackDuck scanning. Built, tested and deployed code using Jenkins to private cloud.

Software Engineer | Python, Scala

- Developed a python-based framework to perform file-level pre-processing and for seamless data movement between various source systems and HDFS.
- Introduced a token-based (JWT) authentication and authorization mechanism in all the applications written in Scala, that replaced legacy authentication mechanism firm-wide.
- Worked on multiple Scala libraries (Akka toolkit, scalaz, jsonwebtoken, json4s), Scala concepts (sequence comprehension, trait, (case) classes, pattern-matching), and complex Scala data structures (Future, ValidationNel, Either).

Software Engineer Intern | Scala, Angular, Kafka, ELK Stack, Zuul, Eureka

- Developed a interactive framework that served as a real-time monitoring interface to track data ingestion process and provided actionable insights to minimize the production incident efforts.
- It consists of microservices like events service, process monitor, notification alerts, etc.
- Leveraged Kafka for monitoring data ingestion flow, Eureka for service discovery, and Zuul for load balancing. Used ELK stack for storing and visualizing framework logs.

Bangalore, India

Feb 2021 - Jul 2021

Aug 2014 – May 2018 Vellore, India

Aug 2021 – May 2023

Atlanta, GA

Jan 2018 – Jun 2018

Redwood City, California

July 2018 - Jan 2021