

# Tanvi Sinha

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## Education

### North Carolina State University, GPA: 4.0/4.0

Raleigh, NC

Master of Science, Computer Science

August 2022 – Dec 2023

Coursework- Object Oriented Design & Development, DBMS, Algorithms, Neural Networks, Software Engineering

### PES University, GPA: 9.15/10.00

Bangalore, India

B.Tech., Electronics & Communication Engineering (Major), Computer Science (Minor)

August 2016 – May 2020

## Technical Skills

**Programming Languages & Frameworks:** Java, Python, C, JavaScript, Spring Boot, Angular, Ruby, ReactJS, Node

**Virtualization/Cloud & Devops Tools:** AWS, Docker, Kubernetes, CircleCI, Terraform

**Databases:** MySQL, Mongo DB, PostgreSQL, SQLite

## Professional Experience

### Aspida Financial Services

Durham, NC

#### Software Engineer Intern

May 2023- present

- Implementing scalable web services, application UIs & APIs
- Building infrastructure as code using Terraform. Reduced terraform plan time by 50%.

*Tech Stack: ReactJS, Node.js, Typescript, Terraform*

### Cisco Systems

Bangalore, India

#### Software Development Engineer II

November 2021- July 2022

##### *Risk Mitigation Check (RMC):*

- Automated the crash file analysis process for root cause identification
- Reduced the service time from a few days to under 30 mins, leveraging AWS lambda & step functions
- As the security lead for the team, managed the security requirements for the project before every release & audit
- Utilized RDS Read Replicas to isolate read-write operations for all microservices, improving processing time by 90%

*Tech Stack:* Java, JPA, Python, Docker, Kubernetes, CircleCI, Spring Boot, MySQL, Rapid7, SCAVA, Corona scan, CIAM, TPSD, AWS services- Lambda, SQS, Step Function, S3, Lambda Layers, CloudWatch, Secrets Manager etc.

#### Software Development Engineer

August 2020- October 2021

##### *Optimal Software Version (OSV):*

- Developed cloud-based microservices to compute & display best-suited software versions for customers' devices
- Utilized multithreading, efficient indexing & DB optimizations to reduce the latency of the microservice's APIs by 94%

*Tech Stack:* Java, JPA, Spring Boot, MySQL, AWS services- S3, secrets manager

#### Software Engineer Intern

January 2020- June 2020

- Upgraded APIs to manage alerts & send mitigation steps to Cisco Support Team to fix backend reported issues promptly
- Designed & developed a web application for the team to create, edit & publish internal surveys after a product release

*Tech Stack:* Angular, Python Flask, MongoDB, PostgreSQL, ReactJS

## Academic Projects

- Auction Sphere:** Designed & built a full stack web application for selling, bidding on products. *Python, SQL, React*
- Wolf-Stream:** Architected a sophisticated Relational Database Management System (*SQL*) integrated with robust APIs in *JDBC*

## Publications

- German Sign Language Translation** using 3D Hand Pose Estimation & Deep Learning **IEEE TENCON, Osaka, Japan**

## Achievements

- Cisco Certified Developer: Devnet Associate** June 2020 – June 2023
- AWS Developer Associate - Udemy** January 2022
- Connect Everything Award:** by the *Chief Information Security Officer*, Cisco, for rapidly resolving a critical high-impact vulnerability January 2022
- 2<sup>nd</sup> Prize AWS Hackathon:** at Cisco on less frequently used AWS services October 2020
- Dr. MRD & Prof. CNR Rao Merit Scholarship:** at PES University 2017- 2020