

# Pooja Kulkarni

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## EDUCATION

### Ira A. Fulton Schools of Engineering, Arizona State University

Master's of Science in Computer Science

Tempe, Arizona

Aug 2021 – May 2023 (expected)

### Dwarkadas J. Sanghvi College of Engineering (University of Mumbai)

Bachelor of Engineering (Computer Engineering) (GPA: 8.7/10)

Mumbai, Maharashtra

Aug 2014 – May 2018

## TECHNICAL SKILLS

**Programming languages:** Java, Python, C/C++, Javascript, Typescript, Bash, Perl, Go, SQL

**Tools/frameworks:** Spring MVC, Spring Boot, Hibernate, JDBC, Gradle, Maven, Git, JProfiler, Jenkins, Agile framework, PHP

**Data management systems:** PostgreSQL, MySQL, DB2, H2, Sybase, MongoDB, Neo4J

**Web development:** HTML, CSS, Bootstrap, Angular, React, Thymeleaf, NodeJS, ExpressJS, GraphQL

**Other applications/technologies:** IBM MQ, AWS, Linux/Unix, REST APIs, SOAP services, Docker, XML, JSON, XSLT, Jira, Confluence

## ASSISTANTSHIPS

### Security Engineering for Future Computing (SEFCOM) lab, Arizona State University

Feb 2022 - Present

Graduate Services Assistant (GSA)

- Working on a research project with Dr. Ruoyu (Fish) Wang to add support for AVX assembly instructions to modern decompilers

## PROFESSIONAL EXPERIENCE

### Digital Innovation Group, Arizona State University

Aug 2021 – Feb 2022

Software Developer (Full-stack), Student Worker IV

- Built various backend features and REST APIs using Java, Maven, Spring MVC with MongoDB, Neo4J for website Quadriga2.0
- Developed graph visualizations and other front-end features with HTML, Thymeleaf, CSS, Javascript, Bootstrap, CytoscapeJS
- Improved the authentication mechanism using Spring Security and OAuth2.0

### Morgan Stanley, Institutional Securities Technology

Manager, Software Development Engineer

Jan 2021 – June 2021

- Developed a high-volume trading component using Java, Gradle, Spring Boot, Hibernate, DB2, XML
- Improved performance at peak market hours by around 80% using multi-threading on dynamic message queues
- Developed complex Python scripts to improve production-parallel testing and automation

Senior Associate, Software Development Engineer

Jan 2020 – Jan 2021

- Developed a highly time-sensitive component that raises events and exceptions, using Java, Spring Boot, JDBC, DB2
- Performed extensive unit testing, integration testing using H2 DB and performance testing using JProfiler

Associate, Software Development Engineer

Jan 2019 – Jan 2020

- Decommissioned a legacy Java component and received department-wise recognition for 'Taking Ownership'
- Developed automation, monitoring and developer tools using Python, Bash and Perl scripting

Technology Analyst

Aug 2018 – Jan 2019

- Completed the 4-month Technology Analyst Program (TAP) training conducted annually by Morgan Stanley.

### Mindshift Applications and Solutions Pvt. Ltd.

Jan 2017 – April 2017

Backend development intern

- Wrote complex SQL queries for developing 100+ REST endpoints using the CodeIgniter PHP framework
- Improved the existing database design and implemented functionality to send automated, scheduled emails

## PROJECTS

### Marathi Katta, an E-commerce website for ordering food

- Developing a Docker-based website for online food ordering using Angular 8, GraphQL, Apollo, PostgreSQL as DBMS and ExpressJS

### VaxAlert for real-time COVID-19 Vaccine alerts in India (Github URL: [cowin-alerts](https://github.com/poojakulkarni562/cowin-alerts))

- Built a Discord app to notify about COVID-19 vaccine slots using Python, Typescript, OpenAPIs by Indian Government, hosted on AWS

### Wandergram, a traveling based social media application (Hosted URL: [Wandergram](https://wandergram.herokuapp.com/), Github URLs: [Wandergram](https://github.com/poojakulkarni562/wandergram), [Wandergram-api](https://github.com/poojakulkarni562/wandergram-api))

- Developed a web app to create and explore traveling related posts using React, Typescript, Cloudflare Workers and Pages

## LEADERSHIP AND VOLUNTEERING ACTIVITIES

- As a relationship manager at Morgan Stanley organized 2 campus recruitment drives for my undergrad institute
- Taught Scratch programming language to underprivileged students as a part of the PIJAM foundation