

# Shweta Mandavgane

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Available for Fulltime SDE positions from **May 2021**

## EDUCATION

**Master of Science in Computer Science, Northeastern University**(GPA:3.8/4.0) *Sept.2019 - Present*  
**Bachelor of Engineering in Information Technology, University of Pune**(GPA: First Class Distinction) *Sept.2010 - Jun.2013*

## TECHNICAL KNOWLEDGE

**Languages & Frameworks:** Java, PL/SQL, Spring Boot, MERN stack, Microservices, Pega PRPC, Python, Jmeter  
**Tools:** Git, SVN, Rally, JIRA, IntelliJ IDEA, Eclipse, SOAPUI, Wizdler, Putty  
**Web technologies:** React, REST/SOAP integrations, HTML/CSS, MQs/ JMS MDBs, Apache Tomcat  
**Cloud & Security:** Amazon Web Services, JSON Web Tokens(JWT), OAuth, Express/ Akana Gateway  
**Certifications:** Oracle Certified JAVA SE6 Professional, Certified Scrum Master, Certified Professional Scrum Product Owner(PSPO I), AWS Certified Cloud Practitioner(Pursuing), Pega Certified System Architect(CSA)

## RELEVANT WORK EXPERIENCE

**New York Life R&D Labs, New York City, New York**

*Cloud Software Engineer Coop* *Jun.2020 - Present*

- Designed REST & SOAP APIs with Java Spring Boot framework for integrating various application modules
- Developed Spring Boot REST API using AWS S3, KMS, EC2 Linux instance to upload/download files using S3
- Built batch jobs for multi-node environment to enable huge workload processing & conducted load tests using JMeter
- Implemented SSO using JWT for Spring Boot application to enable security for entire backend application
- Researched on various open source/licensed html to pdf conversion APIs to convert SVG html graphics to pdf

**Northeastern University, Seattle, WA**

*Graduate Teaching Assistant- CS6620 Cloud Computing/Programming Design Paradigms* *Jan.2020 - Jun.2020*

- Mentored 50 students, aided professor in grading assignments and lectures of Cloud Computing and PDP
- Conducted code reviews in PDP labs, helped students implement best coding practices in their assignments

**Atos Syntel, Pune, India**

*Senior Software Developer* *Dec.2018 - Jun.2019*

- Assisted in architecting potential data analytics/Pega PRPC POC; later converting it to 100% funded project
- Optimized multiple SQL queries causing reduction in 30% of total application downtime for a finance application

**Deere and Company, Moline, Illinois**

*Technical Lead* *Feb.2018 - Mar.2018 | Apr.2017 - May 2017*

- Migrated on-premise Pega application to AWS EC2, RDS, CloudWatch, Autoscaling, IAM to reduce resource costs
- Started the scrum model in team and led scrum ceremonies to better liaison between technical team and business
- Co-ordinated the go-live efforts of Java application and after-production support to benefit the application uptime

**John Deere, Pune, India**

*Senior Software Engineer* *May 2016 - Nov.2018*

- Led backend efforts of migrating dealer application from Java EE to Pega, reducing annual costs to around 60%
- Engineered REST/SOAP APIs with an end-to-end pipeline for exposing machine data from DB2 to frontend users
- Designed REST/SOAP webservices in AKANA, redeveloped existing API in AKANA for extra security to application
- Received President's Award for Excellence for Machine Health Dashboard application partly architected by me

**John Deere, Pune, India**

*Software Engineer* *Jul.2013 - May 2016*

- Automated business processes leveraging MQs, SOAP and JavaScript leading to reduction in 50% manual efforts
- Launched department level newsletter for better technical communication and transparency amongst teams

## ACADEMIC PROJECTS

**ClimateTree (Advanced Software Development – CS6510)**(Git [link](#)) *Jan.2020 - Apr.2020*

- Co-designed, developed and launched a website for researchers to research/address climate crisis, work upon solutions
  - Designed social login using OAuth0, JWT(security), user microservice for website users and roles (using RBAC)
  - Served as a scrum leader for initial 2 sprints, setting up sprint ceremonies/processes & facilitating communication in team
- Technologies Used:** Java Spring Boot, Microservices, React, SQL, OAuth0/ JWT, Facebook/ Google developer console

**Unnati** (Git [link](#))

*Jan.2020 - Present*

- Designed and developed a simple website to help students pursuing higher education in the US to get started
- Technologies Used:** React, AWS, microservices, JWT, Developer console, PostGreSQL, Spring Boot

**Course Management System**

*May 2020 - Jun.2020*

- Designed and developed a course management website to perform CRUD operations on courses
  - Developed CI/CD Pipeline using AWS CodeBuild, CodeDeploy, CodePipeline using Terraforms
- Technologies Used:** Spring Boot, RESTful webservices - XML/WSDL/JSON, Swagger, JPA, AWS

## VOLUNTEER WORK

AWS Educate Cloud Ambassador (2020-2021): Promoting AWS products and conducting activities like webinars, tech talks on campus as well as serving as bridge between AWS startup organization and students