

# Subashree Venkatesan Sundharesan

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## EDUCATION

### Master of Science in Computer Science

Indiana University - Bloomington, USA

August 2024 – May 2026

Coursework: Applied Algorithms, Applied Machine Learning, Advanced Database Concepts

### Bachelor of Engineering in Computer Science

Anna University - Chennai, India

CGPA: 8.5/10

August 2018 – May 2022

Coursework: Object Oriented Programming, Data Structures, DBMS, Machine Learning, Cloud Computing

## WORK EXPERIENCE

### Software Development Engineer 1

August 2022 – August 2024

Amadeus

Bangalore, India

- Worked on Air, Hotel & Rail flows and developed reusable UI components for authentication of users
- Created a module for user notifications ensuring compatibility for 10,000+ production systems
- Created stored procedures in Oracle to improve performance of application - 57% increase
- Implemented sustainability-focused features, like CO2 emissions for flights and eco-friendly hotel options
- Migrated multiple repositories from BitBucket to GitHub (DevOps) and worked on Re-encryption
- Maintained >80% JUnits coverage and deployed to Openshift cloud platform using Jenkins for testing
- Automated developers environment setup process which saved time and efforts from weeks to days
- Mentored interns and new hires, assisting with development setup and knowledge transfers
- Won People's Choice Award - Cytric Voice (2023)

### Software Engineer Intern

March 2022 – July 2022

Amadeus

Bangalore, India

- Modernized a 20 year old tool used for translating texts, by removing pain points and enhancing efficiency
- Redesigned front-end from servlet UI to Angular SPA and Angular Material, incorporating NgRx(Redux)
- Rebuilt back-end logic from Java Servlets to Spring Boot and created REST APIs to perform CRUD operations
- Created unit tests using JUnit5, Jasmine & Karma and improved overall performance by 30%

### Undergraduate Research Assistant

July 2021 – June 2022

Sri Sivasubramaniya Nadar College of Engineering

Chennai, India

- Proposed a tool for visualization & analysis of crime networks based on Social Network Analysis, using Python, JavaScript, NetworkX, Chart.js, Pyvis, Vis.js
- Used data cleaned and extracted from Word documents maintained by the Police Department
- Implemented centrality measures, community detection, path finding algorithms, search and filtering features
- Demonstrated the tool at the State Crime Records Bureau, Tamilnadu, India

## PROJECTS

### AI Fitness Trainer | Python, Numpy, OpenCV, MediaPipe

- Counts the number of effective reps in an arm workout with live camera integration
- Used OpenCV and MediaPipe library to detect land marks and angles in the human body

### Recipe Finder Application | React, MaterialUI, JavaScript, HTML, CSS

- Responsive web app which displays recipes based on the searched ingredient or dish. Uses Edamam Food API

### Loan Eligibility Predictor | Python, Pandas, Numpy, Matplotlib, Seaborn, Scikitlearn

- Built a model with 82% accuracy with to automate the loan background checking process

### College Management System | Java, Servlets, MySQL, JDBC, HTML, CSS, JavaScript

- Full Stack web application that facilitates administration of students, faculty, curriculum, & dorms in a college

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, SQL, JavaScript

**Frontend:** Angular, NgRx(Redux), TypeScript, Jasmine & Karma, HTML, CSS, Angular Material, Bootstarp

**Backend:** Spring Boot, JUnit, MySQL, Oracle SQL, MongoDB, PostgreSQL

**Machine Learning:** Numpy, Pandas, Matplotlib, Scikitlearn, NetworkX, Jupyter Notebook

**Developer Tools:** Git, Jira, Confluence, Postman, Docker, Podman, VS Code, IntelliJ, Jenkins, Openshift, Shell Script