

# PALLAVI PANDEY

Los Angeles, CA | [pallavip@usc.edu](mailto:pallavip@usc.edu) | [LinkedIn](#) | [Portfolio](#)

## EDUCATION

University of Southern California, Los Angeles, CA

Aug 2024 - May 2026

Master of Science in Computer Science

Thapar Institute of Engineering and Technology, Punjab, IN

Aug 2017 - Jun 2021

Bachelor of Engineering, Electronics & Computers

GPA: 9.18/10.00

## SKILLS

**Languages and Frameworks:** Angular, AngularJs, JavaScript, TypeScript, C/C++/C#, Java, Python, HTML, CSS, Bootstrap, .NET, Spring Boot, XML, NodeJS, React, Redux, RxJs

**Cloud and Databases:** Amazon Web Services, Google Cloud Platform, MySQL, PostgreSQL, MongoDB, Dbeaver

**Automation and Version Control:** CI/CD, Git, GitHub, Bitbucket, Jenkins, TeamCity, Boomi, Azure DevOps

**Tools and Technologies:** Selenium, Automation Testing, RestAPI, Jasmine, Karma, PyTest, FastAPI, Postman DevOps, Cloud Computing, Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Agile, Docker, Kubernetes, Linux, TCP/IP, Natural Language Processing, Machine Learning, Deep Learning

## PROFESSIONAL EXPERIENCE

UKG, Noida, IN

Senior Software Development Engineer:

Aug 2022 - Present

- Developed and implemented cross-browser compatible features for UKG's flagship product: UKG Pro using Angular 13, employing Redux stores for effective state management
- Wrote automation scripts for over 50 test cases using Selenium, achieving comprehensive coverage of two end-to-end features
- Migrated existing legacy code to the latest technology, simultaneously optimizing inefficiencies by 40%
- Led the feature development for Internal UKG products using AngularJS 1.8
- Engineered 20+ APIs in .NET to cater to high-priority feature requirements
- Competed against 800 participants in hackathons, winning accolades for conceptualizing solutions to specific problems, developing end-to-end prototypes, and integrating into the existing toolset

Amadeus Software Labs Pvt Ltd, Bangalore, IN

Software Development Engineer:

Aug 2021- May 2022

- Created and Integrated TypeScript and RxJs-based Angular components for Self Service check-in flows for airline bookings of different clients
- Spearheaded the unit testing of over 200 functionalities with Jasmine/Karma increasing code coverage by 60%

Amadeus Software Labs Pvt Ltd, Bangalore, IN

Software Development Intern:

Jan 2021- May 2021

- Designed an Interactive Web Application along with 3rd party software integrations in Angular and secured using AuthGuard
- Contributed to the creation and integration of over 30 FastAPIs for the implementation of complex operations
- Developed a Python backend for generating and populating PNR templates and also constructed a complex relational database in MySQL

## RESEARCH EXPERIENCE

- COVID-19 Disease Spread Modelling Using ARIMA:** Designed a hybrid ARIMA model via statistical analysis to estimate COVID-19 spread, yielding a 44.99% recovery rate and 2.02% infection rate
- Sentiment analysis using MFCC and Convolutional Networks:** Implemented a novel two-stage model with 92.283% accuracy, distinguishing between genders and classifying seven human emotions based on audio signal processing
- Face Detection using K-Nearest Neighbours:** Contributed to a K-Nearest Neighbours face detection model, achieving 95% detection accuracy and laying the groundwork for modern camera filters in popular apps