

# PADMAVATHI KADIUM

Long Beach, CA - 90815

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## EDUCATION

### California State University, Long Beach - 3.67

Master of Engineering in Computer Science

January 2025 - December 2026

Long Beach, CA

### SRM University, AP - 3.85

Bachelor of Technology in Computer Science in AI & ML

August 2020 - May 2024

Amaravati, AP

## EXPERIENCE

### CSULB Office of Institutional Research & Analytics

Software Developer

April 2025 - Present

Long Beach, CA, USA

- Architected and deployed stateless APIs using AWS Lambda with API Gateway, S3, DynamoDB, and Kotlin based microservices achieving 99.9% uptime under variable load, and reducing infrastructure costs by 40%.
- Implemented dynamic and responsive web features with TypeScript, React, and Node.js, integrating them with cloud backends and version control using Git to improve user experience and streamline workflows for reliable solutions.

### Evostra Ventures Pvt Ltd

Web Developer Intern

June 2024 - December 2024

Remote, India

- Developed automated web scraping pipelines using BeautifulSoup, Scrapy, Selenium, and JavaScript to extract, clean, and process unstructured data from dynamic websites, increasing data ingestion throughput by 25%.
- Engineered scalable data applications with a React, HTML, and CSS front end and Django REST, implementing custom middleware for rate caching and validation to integrate Firebase Storage to automate structured data export and improve data availability by 70%.

### Next Tech Lab

Research Developer

January 2023 - May 2024

Amaravati, AP, India

- Developed a scalable Educational Data Automation platform using Node.js, Express.js, and Angular with a microservices architecture to automate student reporting workflows, reducing manual effort and processing time by 35%.
- Built secure RESTful APIs for seamless integration with external university and learning management systems using OAuth2 and JWT, implemented event driven communication with RabbitMQ, and optimized data management using MongoDB and MySQL, improving data retrieval speed by 50%.
- Enhanced reliability and deployment efficiency through automated testing with Mocha, Jest, Cypress, JUnit, and Selenium achieving 90% coverage, Docker based deployments on GCP, and CI/CD pipelines with SonarQube to maintain code quality and ensure smooth Agile delivery.

## PROJECTS

### Mood App | Flutter, Dart, Kotlin, Node.js, Hugging Face, SQLite, JSON

August 2025

- Developed a mood based music recommendation app using a Hugging Face transformer model trained for emotion recognition and sentiment analysis to detect user mood from facial or text input and suggest personalized tracks.
- Implemented a Node.js backend with SQLite and JSON based APIs for real time music recommendations using model inference and contextual embeddings.

### Voice Based Email System | HTML, CSS, Javascript, Django, Firebase, Android Studio

February 2025

- Designed a voice-driven email system enabling hands-free access for visually impaired users across platforms.
- Integrated Google STT/TTS APIs for speech based email composition and navigation and built a secure Django REST backend to manage user auth, speech processing, and email workflows, with Firebase for real-time updates.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, HTML/CSS, JavaScript, TypeScript, AngularJS, NodeJS, Express.js, .NET, Kotlin

**Developer Tools/ Databases:** VS Code, GCP, Eclipse, AWS, Android Studio, Xcode, Postman, Django, MongoDB, SQL

**Technologies/ Frameworks:** Windows, Linux, Git, Docker, Kubernetes, CI/CD, Jenkins, Terraform, UI/UX, GitHub, Bootstrap, PostgreSQL, NoSQL, Spring, REST, React Native, Scikit-learn, TensorFlow, Keras, LightGBM, PyTorch, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Statsmodels, SciPy, Imbalanced-learn, Microsoft Word, Excel, PowerPoint

## CERTIFICATIONS / PUBLICATIONS

• AWS Cloud Technical Essentials — edX

July 2025

• Analyzing the Health Data: An Application on Sequential Pattern Mining — IEEE

December 2024

• Analyzing Health Data: An Application of High Utility Item Mining — IEEE

November 2023

• Java Masterclass: 130+ Hours of Expert Lessons — Udemy

March 2023

• SRM Research Day — Gold Medal

2023 & 2024