

# ASHIKA ANAND BABU

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## EXPERIENCE

### Software Engineer, OptM Media Solutions Pvt Ltd.

Jan 2019 - Mar 2021

Designed and developed a cross-platform application for railway ticket reservation and management.

- Created design specifications and design standards in the form of storyboards, prototypes and wireframes.
- Authenticated and authorized the REST API calls using JSON Web Tokens (JWT) and tested using Postman.
- Formulated a reusable RESTful API framework for consuming and pushing data into MongoDB.
- Developed NodeJS backend application components using Express.js. and Agile Scrum methodologies.
- Deployed application on AWS Cloud, monitored and maintained it in production using AWS CLI.
- Utilized Kubernetes to orchestrate deployment, scaling and management of Docker containers.

Designed and developed custom web application for hotel service management.

- Developed User Interface (UI) with ReactJS, Saga, Redux using MVC and MVVM architecture pattern.
- Implemented functionality such as menu navigation and confirming identity through auth0 verification.

### Software Engineer and Software Intern, Cerner Corporations

Jan 2018 - Dec 2018

Responsible for data collection and statistical analysis of major issues in the Revenue Cycle Monitoring (RCM) team.

- Developed an internal tool for representing associate performance on major issues that RCM team deals with.
- Optimized balance sheets for reducing recurring issues by 15% using scripts.

## SKILLS

**Programming Languages** : Python, Java, JavaScript, TypeScript, C++, HTML5, CSS, SQL

**Web Technologies** : ReactJS, Node.js, Express.js, Redux, Saga, MongoDB, AWS S3, AWS EC2, JWT

**Software Development Tools** : Git, npm, Postman, Jira, WordPress, AWS, Docker and Kubernetes

**Data Science** : NumPy, Pandas, Scikit-learn, PyTorch, Keras, MySQL, Tableau

**Completed Courses** : Neural Networks and Deep Learning (Coursera), Master MERN Stack (Udemy)

## EDUCATION

### San Jose State University, San Jose, CA

Aug 2021 - May 2023

Master of Science in Software Engineering

GPA: 3.88/4.00

**Coursework** : Enterprise Software Platforms, Software Systems Engineering, Applied Machine Learning

### Visvesvaraya Technological University, NHCE, Bangalore, India

Aug 2014 - Jun 2018

Bachelor of Engineering in Information Science and Engineering

CGPA: 3.47/4.00

## ACADEMIC PROJECTS

### Comprehensive Hotel Booking and Management System (Java, ReactJS, MySQL, AWS EC2)

Spring 2022

Built a full-stack hotel booking system that links each customer's rewards account to their reservations, allowing user to manage rewards, search for hotels, book rooms with dynamic pricing, update/cancel reservations, and enroll as a new customer. It provides user authentication using AWS Cognito and was deployed on AWS with auto-scaled EC2 clusters.

### Employee Management Software (NodeJS, ReactJS, MongoDB, AWS)

Fall 2021

Implemented an HR Service System for HR Managers, Managers, and Employees with tailored capabilities. Employees can view and update their profile, submit timesheets, and view payroll information. Managers have access to employee details, timesheets, payroll, and more. HR Managers have the ability to create pay rates, add employees, and generate payroll. The project utilized ReactJS, MongoDB, NodeJS, and deployed on AWS for efficient and secure HR management

### Sentiment Analysis for Covid Vaccination (Python, Flask, Pandas, NumPy, Heroku, Colab, NLTK)

Fall 2021

Preprocessed scraped data to generate a numerical model using XGBoost. Achieved 77% efficiency on enhancing model with CATBoost in predicting reactions. Accounted details of 120 countries on dashboard to show which country conditions are better for a type of vaccine. Link: <https://covid-vaccine-sentiment-pred.herokuapp.com>