

# PRAVEEN V

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## SUMMARY

Aspiring Software Engineer with hands-on experience in full-stack development, building cloud-native applications and machine learning. Proven ability to build scalable, production-grade tools using AWS, React and Python with Strong foundation in CS fundamentals and a track record of academic and project-based achievements.

## EXPERIENCE

### Amazon

January 2025 - June 2025

Software Developer Engineer Intern

Chennai

- Developed a PoC for a Power Profiler Tool using IPC commands to toggle component states, enabling precise power analysis on Kindle devices.
- Automated power profiling by integrating AWS S3 for data storage and SageMaker for model execution, enhancing system efficiency. Used API Gateway, AWS Lambda, and secure Midway authentication for scalable, secure access
- Created an internal chatbot using Amazon Bedrock Knowledge Base for intuitive access to wikis and technical docs.

**Tech Stack:** AWS, ReactJS, Machine Learning, Unix

## PROJECTS

### Autism Risk Prediction using Multi-modal Data

- Developed a diagnostic ML/DL pipeline that fuses image, EEG, AQ survey, and eye-tracking inputs to identify autism risk. Applied modality-specific deep learning models and ensemble bagging for robust decision-making.

**Tech Stack:** Machine learning , Deep Learning, Neural Networks, Transformers, Hyper Parameter Tuning, Optimizers

### Academic Analyser – Full-Stack Performance Tracker

- Built a role-based academic monitoring system featuring dynamic dashboards, authentication, and CRUD APIs for educators and students to track academic progress and analytics securely.

**Tech Stack:** ReactJS, NodeJS, ExpressJS, MySQL, JWT, Bcrypt, ChartJS, REST APIs

### QuickPly – Job Application Platform

- Built a full-stack recruitment system using JSP, PostgreSQL, and JDBC, featuring user authentication, CRUD operations for profiles and job listings, and resume handling via dynamic JSP-driven interfaces.

**Tech Stack:** JSP, PostgreSQL, JDBC, HTML/CSS

## SKILLS

### Programming Languages

C++, Python, Java, C

### Full Stack Development

React, NodeJS, Express.js, SQL, MongoDB

### Machine Learning

Classical ML, Deep Learning ,Neural Networks, Hyper Parameter Tuning

### Cloud Platforms

AWS (S3, Lambda, SageMaker, API Gateway, Bedrock)

### Computer Science Fundamentals

Data Structures and Algorithms, OS, DBMS, Networks, Cloud Essentials, Cryptography

### Dev Tools

Git, Gerrit, Unity, Docker

## EDUCATION

### CEG, Anna University

B.Tech, Information Technology

**GPA: 8.34**

2021 – 2025

### Jaycee Higher Secondary School

Higher Secondary

**Percentage: 98.5%**

2020 – 2021

## CERTIFICATIONS

- MERN stack powered by Mongo DB
- Journey to Cloud: Envisioning Your Solution by IBM skillsBuild
- CyberSecurity Essentials by Cisco

## ACHIEVEMENTS AND VOLUNTEERING

- School first in 10th, 11th, and 12th Board Examinations.
- NCC A-Certificate holder.
- NSS volunteer in college.