

# Jaswanth Mada

+1-219-466-5564 | [jmada@pnw.edu](mailto:jmada@pnw.edu)

## SUMMARY

Passionate problem-solver and software engineer who thrives on tackling complex challenges through code. With experience solving hundreds of coding and SQL problems on platforms like Leetcode & StratasScratch, I bring strong analytical thinking & problem solving skills. I've built real-world solutions, including an AI-detection system for interview integrity and a contest tracker serving 46+ users.

## EDUCATION

### Purdue University Northwest

Aug 2023 - May 2025

Master's, Computer Science

- **GPA:** 3.87/4.0
- **Coursework:** Software Development, Machine Learning, Cloud Computing

## EXPERIENCE

### Keerthi Bizplus4U IT Services Private Limited

May 2023 - Jul 2023

Software Engineer Intern

Hyderabad, India

- Developed the website's backend using the MVC architecture, resulting in improved code organization and streamlined maintenance processes; reduced bug fixing time by 40% and increased development efficiency.
- Implemented REST APIs using Express Js, applying modular design and techniques which improved data retrieval efficiency by 40% and reduced response time by 50ms.
- Developed user-friendly and visually appealing web applications using React, Typescript, and CSS. Utilized React Testing Library to test the code and ensure its functionality and reliability.

## PROJECTS

### True Interview

Feb 2025 - May 2025

- Developed a real-time monitoring system to detect usage of AI-assisted tools like Interview Coder and Cluely during virtual interviews, promoting integrity in technical hiring.
- Built a cross-platform desktop application using Electron.js which scans active system processes using psutil and flags suspicious tools through real-time alerts.
- Deployed the backend services on Render for easy scalability and continuous availability during interview sessions.

### ECartify

Oct 2024 - Dec 2024

- Designed a high-performance Full-Stack Web Application using Node.js for efficient REST APIs and React.js for a seamless Single Page Application, reducing page load time by 50%.
- Implemented a highly secure user authentication and authorization system using JSON Web Token (JWT) to safeguard user accounts reducing the risk of unauthorized access and data breaches.
- Integrated secure and user-friendly payment gateways, providing customers with a seamless checkout process.
- Hosted the frontend assets on Amazon S3 and deployed the backend server on Amazon EC2 for efficient scalability and management, ensuring reliable performance. The domain is managed using Amazon Route 53.

### Credit Card Fraud Detection

Jun 2024 - Aug 2024

- Designed fraud detection system using undersampling (NearMiss) and oversampling (SMOTE) to handle class imbalance effectively.
- Applied PCA for feature reduction and separability, enabling better clustering between fraud and non-fraud transactions.
- Evaluated Logistic Regression, SVM, and Random Forest using ROC, F1, and recall, best model achieved 91% recall.
- Employed CV-aware sampling strategies to avoid metric inflation, emphasized high recall to prioritize fraud detection in real-world.

### Contest Tracker

May 2024 - Jun 2024

- Developed a web application that aggregates upcoming programming contests from multiple platforms (LeetCode, Codeforces, CodeChef, AtCoder, CodingNinjas), serving 46+ active users.
- Built an intuitive filtering system using JavaScript allowing users to select specific platforms and view personalized contest schedules.

## SKILLS

- **Programming Languages:** Java, JavaScript, Python, HTML5, CSS
- **Libraries/Frameworks:** ReactJS, NodeJS, MongoDB, ExpressJS
- **Databases:** MongoDB, PostgreSQL, MySQL
- **Developer Tools:** Data Structures, Algorithms, Linux/Unix, Docker, API Development, GitHub, Object-oriented design
- **Cloud Services:** Amazon Web Services

## ACHIEVEMENTS

- **ICPC:** Ranked 43 out of 89 teams in the USA Mid-Center Regional ICPC Contest.
- **IEEE Xtreme:** Ranked 29 out of 149 teams in the 18th Annual Global IEEE Xtreme Programming Competition.
- **IICC:** Secured a rank of 1700 out of 90,000 participants in the Innovative India Coding Championship.