

# SHREYA TRIPATHI

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## PROFESSIONAL SUMMARY

Aspiring Software Developer with hands-on experience in Full Stack Web Development, Java Development and AI/ML. Building scalable and efficient applications using modern frameworks and cloud platforms. Strong background in Backend Development (MySQL, Python, Node.js, FastAPI), Frontend Development (React.js, JavaScript, CSS, HTML) and Problem Solving (Java, DSA).

## SKILLS & TECHNOLOGIES

**Programming Languages:** Java (OOP, DSA) | Python | C | SQL (MySQL) | JavaScript | HTML | CSS

**Full Stack Development:** React.js | Node.js | Spring Boot | OpenAI API | RESTful APIs | TailwindCSS | FastAPI | Uvicorn

**Tools & Frameworks:** IntelliJ | Visual Studio Code | AWS | Git | Agile Development | Jupyter Notebook

## CERTIFICATIONS

- Microsoft AI & ML Engineering Professional Certificate (*Ongoing*)
- Amazon Junior Software Developer Professional Certificate (*2025*)
- AI Foundations: Prompt Engineering with ChatGPT by Arizona State University (*2024*)
- Build Responsive Real-World Websites with HTML and CSS by Udemy (*2024*)
- Google Cloud Digital Leader (*2023*)
- AWS Cloud Practitioner Essentials (*2023*)

## WORK EXPERIENCE

### Excel Data Services – Java Development Intern

06/2024 – 06/2024

- Developed and maintained 10+ Java-based microservices, using principles of OOP (inheritance and encapsulation).
- Optimized relational database design by applying BCNF normalization in MySQL, reducing data redundancy by 30%.
- Collaborated in Agile development processes, contributing to a 20% reduction in product delivery time.

### Evon Technologies – Web Development Intern

11/2023 – 12/2023

- Developed a Sports Registration web application using Full Stack Web Development (Node.js, MySQL, JSON), enabling 500 concurrent user registrations with a 99.9% uptime, showcasing robust system architecture.
- Enhanced UX/UI using interactive elements optimized with Fitts' and Hick's Laws.
- Delivered the project on time while debugging and optimizing database performance by 36% using 3NF.

### Reliance Securities Limited – Digital Business Intern

09/2023 – 10/2023

- Conducted comprehensive software testing for the *HeyTorus* application across 15+ key functionalities, ensuring bug-free performance.
- Dispensed 30+ interactive demo tools for soft skills training using HTML, CSS, and JavaScript.
- Enhanced professional cross-functional communication between teams.

## PROJECTS

### AI Resume Parser & Candidate Shortlisting System

01/2025 – 04/2025

- Created a BERT-based system for parsing resumes, ranking candidates, and explaining results using SHAP.
- Integrated OpenAI API to identify 40 relevant skills and enabled job-fit scoring via FastAPI and React + Vite UI.

### HR Aid

01/2025 – 03/2025

- Created a Layoff Prediction web application with a model accuracy of 99.97% using a hybrid model of BiLSTM + XGBoost.
- Hosted the model using FastAPI in backend and React, Vite and TailwindCSS in frontend.

### Gesture Recognition

07/2024 – 11/2024

- Engineered a real-time facial recognition web app leveraging OpenCV and Python, detecting smiles and frowns with 98% accuracy.
- Implemented gesture detection with live camera feed integration using JavaScript, HTML, CSS.

### Secured Key Exchange Protocol

01/2024 – 05/2024

- Implemented NewHopeKeyExchange algorithm for secure key exchange using lattice-based cryptography, reducing potential data breaches by 15%.
- Built a Java-based TCP client-server communication system with multiple clients for testing

### Quizzer

06/2023 – 08/2023

- Built a Java-based quiz application with a dynamic question bank, user score tracking, and interactive console interface.
- Implemented OOP principles to manage questions, user sessions, and scoring logic efficiently.

## EDUCATION

### Vellore Institute of Technology, Chennai

07/2021 – 07/2025

B.Tech in Computer Science & Engineering

(CGPA: 7.25)

*Relevant Courses: Object Oriented Programming, Data Structures and Algorithms, Advanced Competitive Coding, Software Engineering, Artificial Intelligence, Explainable Artificial Intelligence, Design and Analysis of Algorithms, Computer Programming: Java*

### Brightlands School, Dehradun

04/2020 – 04/2021

Senior Secondary

(Score: 94.75%)

## EXTRA-CURRICULARS & ACHIEVEMENTS

- Student Coordinator, Dream Merchant Club (VIT Chennai) (*2023*)
- 5-Star Java Coder at HackerRank (*2022*)