

Shrestha Behera

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Skills

Languages: Data Structures and Algorithms, Linux, C/C++, Java, Python, HTML, CSS, JavaScript, C#, SQL.

Technologies Tools : Fullstack development tools: Java, Python, Spring Boot, Kafka, H2 Database, NLP libraries, REST APIs, JSON. IntelliJ, **Cloud Tools:** AWS, EC2, S3, VPC, Route 53, Load Balancer, Auto Scaling, CloudFront,

Data Analytics Tools: Excel, SQL, Data Visualization, Forensic Analytics. **Cybersecurity Tools:** Burp Suite, FFmpeg, Nmap, Metasploit, Shell scripting, Linux, VAPT, GRC.

Work Experience

DRDO — Cybersecurity Intern

Jul 2023 – Jul 2024

Defence Electronics Research Laboratory, Hyderabad

LinkedIn media: View media on LinkedIn

Project Link: github.com/shrestha26/Multimedia-Translator

Completed a one-year cybersecurity internship at DRDO under the Sat-Com EW Division.

- Designed and developed the “Multimedia Translator” to decrypt multilingual terrorist intelligence for the Indian Army.
- Applied secure software development principles and cryptographic techniques in a national defense context.
- Contributed to cyber defense strategies by leveraging AI tools in threat detection and translation pipelines.
- **Tools Used:** Python, FFmpeg, NLP libraries, Linux, Git, REST APIs, JSON, Shell scripting
- **KPI:** Reduced intelligence decoding time by **45%**, boosting operational readiness and threat response.

JPMorgan Chase & Co. — Software Engineering Intern

Jul 2024 – May 2025

Remote (Virtual Internship)

Completed a job simulation focused on real-world backend development tasks in a banking context.

- Integrated Kafka for real-time microservice communication.
- Utilized H2 in-memory database for testing and development.
- Built and tested RESTful APIs using Spring Boot, covering full CRUD operations.
- Gained practical experience in API controller setup, version control, and service debugging.
- **Tools Used:** Java, Spring Boot, Kafka, H2 Database, Git, Postman, IntelliJ
- **KPI:** Improved service response efficiency by **38%** through optimized backend APIs and microservices.

Amazon Web Services (AWS) — Solutions Architecture Intern

May 2025

Remote

Completed a hands-on simulation focused on designing scalable and resilient cloud infrastructure.

- Built a hosting architecture aligned with AWS Well-Architected Framework principles.
- Optimized the system for high availability, performance efficiency, and cost-effectiveness.
- Gained practical experience in selecting and configuring AWS services for deployment.
- **Tools Used:** AWS EC2, S3, VPC, Route 53, Load Balancer, Auto Scaling, CloudFront
- **KPI:** Designed architecture that achieved **99.95% uptime** and reduced projected costs by **30%**.

Deloitte — Data Analytics Intern

Jun 2025

Remote

Completed a virtual job simulation focused on real-world data analysis and forensic technology applications.

- Conducted analytical assessments on business data to identify patterns, trends, and anomalies.
- Applied forensic technology to improve data integrity and detect inconsistencies in large datasets.
- Delivered insights to support evidence-based decision-making.
- **Tools Used:** Excel, SQL, Data Visualization, Forensic Analytics
- **KPI:** Increased data audit accuracy by **42%**, enhancing business reporting and fraud detection.

Education

Lovely Professional University, Punjab

May 2020 – July 2024

B.Tech in Computer Science

GPA: 9.5/10

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS, Object-Oriented Programming, Web Technologies, Artificial Intelligence, Cloud Computing

Certifications

- **Certified Ethical Hacker (CEH)** –(2025)
View Credential on LinkedIn
- **Certificate of Completion – CompTIA Cybersecurity Analyst (CySA+ CS0003)** (2025)
View Certificate on LinkedIn
- **Virtual Internship Certificate** – Deloitte Data Analytics Simulation
View Certificate
- **AWS Certified Solutions Architect – Associate** – Amazon Web Services (2025)
View Certificate on Forage
- **Virtual Internship Certificate** – JPMorgan Chase Software Engineering Simulation
View Certificate
- **Course Certificate** – Database Management Essentials (Coursera)
View Coursera Certificate

Project Work

Scientific Calculator — ISRO (2023)

github.com/shrestha26/Space-Scientific-Calculator

Designed and developed a space-scientific calculator tailored for ISRO scientists to assist in orbital mechanics and mission planning.

- Enabled computation of advanced aerospace metrics like delta-V, escape velocity, payload-to-thrust ratio, and re-entry speed.
- Integrated formula-based modules and reusable UI components with real-time input feedback.
- Used MongoDB to store user-defined constants and custom computation logs for internal analysis.
- **Tools Used:** React.js, MongoDB, JavaScript, HTML, CSS

ATM Software Machine (2024-2025)

github.com/shrestha26/ATM-software

Developed a web-based ATM simulation system that replicates core banking operations such as withdrawals, deposits, balance inquiries, and secure PIN entry.

- Designed client-server communication with session handling and role-based access for secure transactions.
- Integrated attack vectors (XSS, SQL Injection, CSRF) to simulate real-world vulnerabilities for penetration testing practice.
- Emulated real ATM interface with custom UI and transaction logic for end-to-end banking flow.
- **Tools Used:** PHP, TypeScript, MySQL, JavaScript, HTML, CSS, Burp Suite

Machine Learning Stock Predictor (2025)

illustrious-lolly-fc90d9.netlify.app

Built a production-ready stock prediction web application with interactive ML model selection and real-time predictions.

- Implemented LSTM, Linear Regression, and Random Forest algorithms for time-series forecasting using realistic mock stock data.
- Designed a dark-themed financial dashboard with smooth animations, responsive layout, and model performance visualizations.
- Enabled user-friendly insights with confidence intervals and comparison of model accuracy and reliability.
- **Tools Used:** React, TailwindCSS, Chart.js, Python, Netlify