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Training

Lovely Professional University
June-July 2024

Application Development in Java – Summer Training

About: Completed online summer training in application development using Java, focusing on building GUI-based application. Developed and optimized Java applications with a strong emphasis on user-friendly interfaces and functionality. Gained hands-on experience in core Java concepts, object-oriented programming (OOP), and GUI frameworks for interactive application.

Tech stacks used: Java · Object Oriented Programming (OOP) · GUI Development · Application Development

Projects

Free OSINT Toolkit:
December 2024 – April 2025

- Developed a web-based toolkit to help users uncover exposed personal data and promote cyber hygiene.
- Incorporated multiple OSINT modules including a password breach scanner (Pawned Passwords), email lookup, and image metadata extractor.
- Engineered the backend using Flask to process user input and generate dynamic, privacy-focused results.
- Designed an interactive frontend using HTML/CSS to ensure a smooth and accessible user experience.
- Ran 30+ test cases and reduced input response time by 28% through backend optimization.

Tech: Python, Flask, HTML, CSS

Secure Chat Room:
November 2024 – January 2025

- Built a terminal-based encrypted messaging platform supporting real-time peer communication.
- Implemented AES encryption to ensure confidentiality of message exchange across connected clients.
- Inspected live traffic using Wireshark to verify encryption and track potential packet anomalies.
- Configured fail2ban to automatically restrict repeated unauthorized login attempts.
- Conducted 25+ test scenarios and improved message delivery stability by 35% under simulated load.

Tech: Python, AES, Socket Programming, Wireshark

Certificates

- Java by HackerRank — February 2025
- Cloud Computing Certification by NPTEL — December 2024
- Programming Fundamentals in Kotlin by Coursera — November 2024
- Google Cybersecurity by Coursera — July 2024
- Introduction to Android Mobile Application Development by Coursera — July 2024
- Com TIA Linux+ XKO-005 by Cybrary — May 2024
- The Bits and Bytes of Computer Networking by Google by Coursera — November 2023
- Data Structures and Algorithms by NeoColab by LPU — August 2023
- C++ by NeoColab by LPU — August 2023
- Mastering Data Structures & Algorithms using C and C++ by Udemy — June 2023

Technical Skills

Languages: C++, Kotlin, SQL, Java, C, HTML, CSS, Python

Technologies/Tools: Wireshark, Nmap, Linux, Android Studio, Android Development, React Native, VSCode, Git, GitHub, ReactJS, NodeJS, Firebase Integration, Flask, Fail2ban

Skills: Analytical Thinking, Teamwork, Leadership, Time Management, Attention to Detail, Localization, Multilingual Support, DSA, OOPS, Computer Networks, MERN Stack, Firebase Firestore, OSINT (Open Source Intelligence), Cybersecurity, AES Encryption, Socket Programming, Backend Optimization, Test Case Design & Execution

Education

Lovely Professional University — **2022 – 2026**
Computer Science and Engineering — CGPA: 7.04 — *Jalandhar, Punjab*

BD College — **2021 – 2022**
12th with Science — Percentage: 76.8% — *Patna, Bihar*

Camford Public School — **2019 – 2020**
10th with Science — Percentage: 68.6% — *Patna, Bihar*