Ashkan Khademi

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EDUCATION

York University — Toronto, ON
Bachelor of Science in Computer Science — *September 2020 – December 2024*
- Courses: Advanced Object-Oriented Programming (Java), Computer Organization, Introduction to Database Systems, Fundamentals of Data Structure, Operating System Fundamentals, Software Design

TECHNICAL SKILLS

Languages: Java, HTML, CSS, JavaScript, C, SQL, Python
Frameworks/Tools: React, Spring, Flask, JUnit

RESEARCH

Cybersecurity and DPI Anomaly Detection — September 2024 – Present
York University — *Toronto, ON*
- Analyzing network traffic using DPI tools like Suricata to detect anomalies in real-time.
- Using CNN and Beta-VAE models to classify encrypted and unencrypted data for threat detection.

PROJECTS

Mail Server
- Built a multi-client mail server using Java sockets to support SMTP and POP3 for email handling.
- Oversaw email storage and retrieval, ensuring 100% internal message handling without external relays.

RTSP Client
- Developed an RTSP client to stream video using UDP and TCP, supporting MJPEG playback at 25 fps.
- Implemented three features: SETUP, PLAY, and PAUSE commands for smooth video playback.
- Controlled frame buffering for smooth playback and minimized disruptions from out-of-order frames.

Budgeting System Application
- Designed a budgeting tool using Java and JSON to manage 100+ transactions across categories..
- Applied Agile methodology for faster updates, boosting user satisfaction and reducing issues.
- Collaborated closely with a team of 5, enhancing the tool's functionality and overall performance.

Hospital Management System
- Developed a Java-based system managing 500 patients, 70 physicians, and staff for hospital operations.
- Applied OOP principles to manage multiple departments, improving patient care and workflows.

VOLUNTEERING EXPERIENCES

Canada Learning Code — September 2023 – Present
- Volunteering as a mentor in a program reaching 977,000 learners and hosting 11,000 coding events.
- Ensuring a positive learning environment for 4-5 learners by answering questions.

WORK EXPERIENCE

Stylist — September 2023 – Present
Banana Republic — *Toronto, ON*
- Marketed reward program initiatives, achieving a 90% customer registration rate.
- Resolved customer concerns effectively, boosting satisfaction and service ratings.

Cashier/Stylist — July 2022 – May 2023
Browns Shoes — *Toronto, ON*
- Analyzed customer needs, leading to consistently high satisfaction scores of 80%+.
- Operated POS systems efficiently, ensuring accurate transaction processing.

Sales Associate — September 2021 - December 2021
Gap — *Toronto, ON*
- Organized inventory, maintaining stock levels above 20%, improving customer satisfaction.
- Coordinated with team members to enhance store operations and the shopping experience.