#### SAUMYA PANDYA

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### **SUMMARY**

Results-driven Software Engineer with deep expertise in **data structures**, **algorithms**, **systems programming**, and **cloud-native architectures**. Proven success at IBM in delivering secure, high-performance solutions with a focus on cryptography, container orchestration, and scalable microservices. Strong communicator and collaborator with a passion for impactful, inclusive technology.

### **SKILLS**

- Strong foundation in data structures, object-oriented programming, and full-stack development.
- Effective communicator and team player with proven leadership and problem-solving abilities.
- Highly organized, innovative, and self-motivated in diverse and fast-paced environments.

## **CORE TECHNICAL SKILLS**

- Languages: Java, C, C++, Python, PHP, CSS, MySQL, JavaScript, Linux, Perl, Bash
- Frameworks/Tools: Spring Boot, JAX-RS, React.js, Node.js, Express.js, Sequelize, JUnit, Maven
- Cloud & DevOps: AWS, Google Cloud, Docker, Kubernetes, Jenkins, CI/CD pipelines
- Concepts: Algorithms, Computer Networking(TCP/UDP), Operating Systems, DBMS, Encryption (AES/DES, RSA)
- **Development Tools & Environments:** Linux (Ubuntu, RedHat), Windows, MacOS, Rancher Desktop, GitHub, Eclipse, VSCode

## RELEVANT WORK EXPERIENCE

# SOFTWARE DEVELOPER INTERN | IBM, MARKHAM, ON

**MAY 2023 – AUGUST 2024** 

**Key Technologies:** Java, MicroProfile, JAX-RS, AES/DES, RSA, LTPA, LDAP, Bouncy Castle, AWS EKS, Docker, Open Liberty, GitHub, CI/CD, Linux, Spring Boot

- FIPS Integration into WebSphere (Feb 2024 Apr 2024)
  - Strengthened security compliance through AES/DES encryption, LTPA tokens, RSA key limitations, and SSL/TLS optimization.
  - Debugged & troubleshot critical issues, enhancing cryptographic efficiency and reliability.
- Container Optimization on AWS-EKS (July 2023 Oct 2023)
  - GitHub link to the guide draft
  - Developed a container optimization guide, improving Java app startup speed by 10x.
  - Managed AWS Kubernetes (EKS) clusters, increasing efficiency by 55%.
  - Collaborated with AWS professionals to deliver optimized solutions ahead of schedule.
- Developer Content & QA:
  - Assisted in new feature development, QA, and technical documentation for backend enterprise systems.
  - Conducted testing, debugging, and log analysis across sandbox environments to reduce defects by 30%.
  - Supported knowledge sharing by documenting workflows and improving supporting docs.
- Additional Contributions:
  - Integrated new technologies & features, accelerating delivery timelines by 45%.
  - o Collaborated with cross-functional teams to optimize CI/CD pipelines and security protocols.

Key Technologies: C, TCP/UDP, Wireshark, VirtualBox, Linux, Socket Programming, Netstat

- Developed secure client-server communication with real-time file transfer over TCP/UDP.
- Achieved 100% data integrity via TCP and optimized response latency by 30% via UDP.
- Simulated VM-based network environment with VirtualBox, and analyzed traffic using Wireshark.

# BRIDGER WEB APPLICATION | ONTARIO TECH UNIVERSITY, OSHAWA, ON

Key Technologies: React.js, Node.js, MySQL, Express.js, Sequelize

• GitHub: Bridger

**IBM** CERTIFICATIONS

- Built a scalable full-stack app improving accessibility for 150K+ disabled individuals.
- Optimized database queries, reducing response time by 40%.
- One of the top 2 teams out of 30+, winning **Best Project Implementation Award**

## IBM WATSONX AI HACKATHON | IBM, MARKHAM, ON

Key Technologies: IBM Watson Assistant, AI Prompt Engineering, IBM Cloud

- Led development of **Al-driven prompts** to streamline documentation navigation, boosting efficiency by 90%.
- Integrated user feedback, refining models for improved accuracy and usability.

## **ADDITIONAL EXPERIENCE**

INSTRUCTOR | CODE-IT HACKS/LOGIC FUSION, TORONTO/MARKHAM



**Key Technologies:** Python, Java, C++, Lua, Scratch, HTML/CSS, Google Labs, Roblox, Minecraft, LEGO Robotics

- Designed & delivered coding courses for up to 30 students, covering AI, game dev, and full-stack programming.
- Taught programming via Minecraft, Roblox, and LEGO robotics, fostering hands-on learning.
- Provided **technical mentorship**, guiding students through **coding challenges and hackathons**.

## **EDUCATION**

BACHELOR OF ENGINEERING – SOFTWARE ENGINEERING CO-OP ONTARIO TECH UNIVERSITY, OSHAWA, ON

**2021 – 2026** 

• Relevant Coursework: Data Structures, Object-Oriented Programming, Web Development, Database Systems, Microprocessors, Al Algorithms, Operating Systems, Computer Networks, Software Quality

• Cybersecurity and Data Privacy, Al Fundamentals (2023)