

Saumya Pandya

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Skills

- Strong foundation in data structures, object-oriented programming, and web development, demonstrated through various projects.
- Proven leadership, communication, and interpersonal abilities, motivating teams to achieve goals.
- Highly organized, innovative, self-motivated, and eager to learn.
- Effective in diverse situations and team environments, with strong problem-solving capabilities.
- Quick thinker, capable of making sound decisions independently or as part of a team, even in fast-paced settings.

Relevant Technical Skills

- **Languages:** Java, C, C++, Python, PHP, CSS, MySQL, JavaScript
- **Concepts:** Data Structures, Object Oriented Programming, Web Development

Relevant Work Experience

Software Developer Intern | IBM - Markham

May 2023 – Aug 2024

➤ Key Technologies Exposed:

- **Security & Cryptography:** HTTP/HTTPS connections, AES/DES encryption, Hostname verification, SSL handshake, FIPS Cryptography, Bouncy Castle Cryptography
- **Microservices & Frameworks:** MicroProfile, Java Microservices, JAX-RS Annotations
- **Cloud & DevOps:** Amazon Web Services (EKS), Docker, Podman, Kubernetes, Maven, Ant
- **Development Tools & Environments:** Eclipse, VSCode, Rancher Desktop, Bash Shell, Vim, Cygwin
- **Language(s):** Java
- **Identity & Access Management:** LTPA, LDAP
- **Operating Systems:** Windows, Linux (Ubuntu, RedHat), Mac
- **Additional Technology:** GitHub, Sandbox Environments

➤ IBM Projects

FIPS integration into WebSphere

~ Feb 2024 – April 2024

- Demonstrated strong problem-solving skills under tight deadlines, significantly improving security compliance and functionality.
- Tested, debugged, and troubleshooted, gaining hands-on experience with LTPA tokens, AES/DES encryption, SHA hashing, RSA key limitations, and PKCS standards to achieve optimal code quality and efficient delivery.

Container Optimization on AWS-EKS Guide

~ July 2023 – October 2023

[GitHub link to the guide draft](#)

- Developed a guide for optimizing Open Liberty InstantOn image deployment, enhancing Java app startup speed by **10x**.
- Managed containers on AWS ECS for Kubernetes (EKS), improving overall system efficiency by **55%**.
- Researched AWS services, provisioned clusters, and executed tests to validate functionality through comprehensive integration tests.
- Scheduled meetings with AWS professionals to gain insights ensuring effective delivery a month before expected completion date.

- Led key tasks during the WatsonX AI hackathon, ensuring smooth coordination and successful project completion.
- Engineered prompts using the IBM Cloud Watson Assistant service to navigate and analyze extensive documentation, enabling quicker problem-solving and boosting productivity by up to **90%**.
- Actively participated in team review calls, integrating feedback to enhance the project's overall quality.

➤ General Work Experience:

- **Security Enhancement:** Tested and optimized hostname verification for SSL connections; managed key stores and SSL/TLS protocols to enhance security and improve project efficiency.
- **Troubleshooting & Testing:** Ensured high-quality software integration through testing and troubleshooting, reducing post-release defects by **30%**.
- **Log Analysis:** Analyzed log flows, connected it to the extensive codebase, and tested changes in sandbox environments, leading to more reliable integrations.
- **Code Reviews:** Conducted and acted on code reviews, enhancing efficiency and reducing the need of revisions during development.
- **Team Collaboration:** Integrated new technologies and features into the product, cutting delivery times by **45%** and consolidating resources for developers, thereby improving workflow efficiency.
- **Cross-Functional Collaboration:** Worked with experts to troubleshoot issues, document outcomes, and develop comprehensive breakdowns to enhance knowledge sharing.

Other Work Experience

Instructor | Code-It Hacks-Toronto, Logic Fusion- Markham **May - Aug 2021, July 2022 - current**

- Designed and taught programming projects, concepts and games in Java, Python, C++, Lua, and Gamemaker, engaging up to 30 students.
- Utilized LEGO robotics and other kits to enhance hands-on learning and inspire creativity.
- Guided students in game development and coding projects across platforms like Minecraft and Roblox.
- Planned coursework, maintained clear communication with students and parents, and demonstrated leadership and commitment to student success.

Education

- **Bachelor of Engineering - Software Engineering CO-OP** **Present – 2026**
Ontario Tech University - Oshawa, ON
 - **Relevant Coursework- completed:** Data Structures, Object Oriented Programming, Web Development
 - **Relevant Coursework- to be completed by Spring 2025:** Microprocessors and Computer Architecture, Systems Programming, Software Design and Architectures, Data Management, Design and Analysis of Algorithms, Introduction to Artificial Intelligence, Computer Networks, Operating Systems, Software Quality
- **IBM- Cybersecurity and Data Privacy Annual Education** **2023 - 2024**
- **IBM- AI Fundamentals 1** **2023 - 2024**