Aditya Uniyal

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SUMMARY

Software Developer with strong computer science fundamentals and experience building robust, reliable, scalable systems. Designed algorithmic solutions, machine learning web applications with real-time inference, and database-driven software integrated with RESTful APIs. At Lynch Fluid Controls, improved workflow efficiency by 15% and reduced system downtime by 20% through full software development lifecycle and cross-functional collaboration. Brings hands-on technical expertise in Java, databases, and web technologies alongside clear communication and mentorship experience.

WORK EXPERIENCE

Ultimate Coders   June 2024 — June 2025, Scarborough
Coding Instructor

- Developed and delivered comprehensive *Java* programming curriculum for 20+ students aged 9-16, covering object-oriented programming concepts, data structures, and algorithm design using *Java*, *Python*, and *JavaScript*.

- Created hands-on coding exercises focused on problem-solving, debugging methodologies, and software development best practices resulting in measurable improvement in students' ability to write maintainable code.

- Achieved an average **lesson satisfaction score of 4.6/5** through clear technical communication and collaborative mentorship, demonstrating ability to explain complex programming concepts to diverse audiences and collaborating effectively in team environments.

Lynch Fluid Controls   May 2024 — September 2024, Mississauga
Application Developer

- Developed and maintained database-driven web applications using *PHP*, *MySQL*, *HTML*/*CSS*, and *JavaScript*, collaborating with cross-functional teams including QA, operations, and management to deliver reliable, high performing solutions that **improved workflow efficiency by 15%**.

- Built interactive dashboards and reports in Power BI integrated with Microsoft Business Central APIs, utilizing *RESTful APIs* and third-party integrations to deliver real-time business intelligence solutions.

- Participated in full software development lifecycle including requirements gathering, design, development, testing, and deployment; collaborated closely with QA team to identify and resolve software defects**, reducing system downtime by 20%**.

SKILLS

Development: Core Java, Python, Object-Oriented Programming, JUnit

Web Technologies: PHP, HTML, CSS, JavaScript, RESTful APIs

Databases: MySQL, SQL, Database Design

Development Tools: IntelliJ IDEA, Eclipse, Git, GitHub, VS Code

Soft Skills: Problem-Solving, Communication, Critical Thinking, Adaptability, Analytical

TECHNICAL EXPERIENCE & PROJECTS

ClearSpell - *Java, JavaFX, JUnit*

- Developed a full-featured desktop spell-checking application in *Core Java (JDK 17)* using *JavaFX* and *FXML* layouts, applying *MVC pattern* to separate UI, controller, and model logic.

- Engineered core spell-checking logic with regex-based tokenization, dictionary lookup from a 100,000+ word file loaded into memory and suggestion algorithms (insertions, deletions, swaps); validated reliability through comprehensive JUnit testing of error detection, suggestion generation, correction logic, and controller-model integration to ensure well-tested, maintainable code

DIY Teachable Machine - *JavaScript, TensorFlow.js, HTML/CSS*

- Created a client-side web application that trains custom image classifiers directly in the browser by loading MobileNet v3 via *TensorFlow.js* for feature extraction and capturing live webcam frames.

- Implemented transfer learning workflow: gathered and shuffled labeled image features, performed one-hot encoding, trained a sequential model with dense ReLU and softmax layers using Adam optimizer, and enabled real-time inference to display predicted class labels and confidence scores.

EDUCATION

University of Western Ontario, **London, Canada** - *BSc Specialization, Computer Science*   Sep 2021 — Present
Related coursework: Data Structures & Algorithms, Object-Oriented Design, Computer Organization, Operating Systems, AI/ML II, Linear Algebra, Database Design, Discrete Mathematics, Systems Design, Network Security