

Ziyad Tahlilkar

Software Engineer

ziyadtahlilkar@hotmail.com • (647) 687-5160
[LinkedIn](#) • Mississauga, ON
[Portfolio](#)

Innovative and detail-oriented professional with technical expertise in full-stack development and strong foundation in programming languages such as Java and Python. Skilled in designing and implementing scalable software solutions, applying industry best practices, and ensuring high-quality code through rigorous testing. Experienced in collaborating with cross-functional teams to deliver projects on time and within budget. Proficient in Agile methodologies, version control systems, and cloud computing technologies. Adept at problem-solving and troubleshooting to address complex technical challenges. Committed to continuous learning and staying up-to-date with the latest industry trends. Proven ability to adapt quickly to new technologies and frameworks to optimize software performance and enhance user experience.

Technical Proficiencies

HTML/CSS | Java | JavaScript | C/C++ | Python | MATLAB Simulink | Excel (VBA) | Linux/Unix | ExpressJS | NodeJS | AJAX | ReactJS | Django | MongoDB | PostgreSQL | OracleDB | ServiceNow

Areas of Expertise

- ◆ Software Development Life Cycle
- ◆ Algorithms & Data Structures
- ◆ API Integration
- ◆ Database Management
- ◆ Version Control Systems
- ◆ Agile Methodologies
- ◆ Object-oriented Design
- ◆ Debugging & Troubleshooting
- ◆ Cloud Computing

Key Projects

Deep Learning (Python) – Face Mask Detection: Developed a robust deep learning model using keras/tensorflow and OpenCV to accurately detect mask-wearing behavior. Trained the model with a comprehensive dataset comprising 1400 images, including 700 samples with masks and 700 samples without masks.

- Enhanced public safety by enabling real-time identification of individuals not adhering to mask-wearing protocols.
- Achieved high accuracy and reliability in mask detection through diligent model training and dataset curation.

MERN Stack Application – WeatherWatch: Architected and developed a comprehensive web application enabling users to obtain real-time weather information for any city or geographic coordinates. Integrated the OpenWeather API to fetch and display temperature, humidity, wind speed, and air pressure data.

- Designed an intuitive user interface with seamless CRUD functionality and implemented token-based authentication for enhanced security.
- Streamlined access to accurate weather data, empowering users to make informed decisions based on up-to-date meteorological information.

MERN Stack Application – Tendie: Constructed an intuitive stock visualization tool presenting comprehensive line charts showcasing historical and real-time data for any U.S. security. Integrated the TwelveData API to fetch stock data and the NewsAPI to retrieve recent news articles about the company.

- Enhanced user experience by presenting information in a visually appealing and easily digestible format.
- Empowered readers to make informed investment decisions by providing a holistic view of stock performance alongside relevant news articles.
- Successfully deployed application on an Amazon EC2 Instance.

Professional Experience

Infosys - Mississauga, Ontario Associate Software Developer

2022 – Present

Acquired extensive training in key technologies, including Java, Python, SQL, Linux, and AWS aimed at enhancing technical expertise and versatility. Demonstrated adaptability and problem-solving skills by applying acquired knowledge to tackle challenging scenarios and deliver innovative solutions. Drove collaboration with cross-functional teams to analyze, design, develop, and deploy client-centric software solutions. Developed clean, efficient, and scalable code using Java and Python with a keen focus on ensuring optimal performance and maintainability. Ensured high-quality software delivery through comprehensive testing and debugging processes. Contributed to code reviews, maintaining adherence to coding standards and identifying areas for enhancement. Utilized user feedback to drive continuous improvement aimed at boosting software functionality and user experience.

- Achieved a score of 95% in the training program.
- Successfully completed comprehensive training in full-stack development, unit testing, and ITIL methodologies.
- Thrived in a dynamic and high-performing team of 15 trainees by successfully solving complex problems in a software development environment with emphasis on abstract thinking.

Pratt & Whitney Canada - Mississauga, Ontario Software Developer Intern

2020

Developed a Python and VBA data reduction tool for aircraft compressor test results, empowering engineers to assess efficiency and airworthiness of Pratt & Whitney Canada Engines. Leveraged libraries like pandas, numpy, ftplib, and cx_Oracle to import and transform data from Oracle Databases and FTP servers into a readable format. Streamlined data processing, enabling faster analysis and decision-making for engine performance evaluation. Implemented data manipulation techniques, ensuring accurate and reliable results for critical engine assessments.

Eclipse Technology Solutions - Mississauga, Ontario IT Help Desk Engineer

2019

Delivered expert technical support and troubleshooting to address numerous networking hardware and software inquiries in a fast-paced technology office serving prestigious clients. Maintained meticulous inventory tracking of thousands of units in the warehouse, utilizing Excel for accurate and efficient record-keeping. Ensured prompt resolution of client issues, minimizing downtime and maximizing client satisfaction. Implemented efficient inventory management processes, optimizing stock levels and reducing inventory discrepancies.

Education

Bachelors of Technology in Automotive Engineering McMaster University, Hamilton, ON, 2022

Professional Training & Certifications

Project Management (Technical Certificate), 2022, Mohawk College, Hamilton, ON
Software Engineering Immersive, 2022, General Assembly, Toronto, ON
AWS Certified Cloud Practitioner (CLF-C01)