

Tariq Zaitoun

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EXPERIENCE

Software Engineering Fellow

July 2024 – Present

Headstarter

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, SQL

Technologies and Services: React.js, NextJS, Node.js, Express.js, Spring Boot, FastAPI, OpenAI, StripeAPI

Databases: MongoDB, Pinecone, MySQL, PostgreSQL

Cloud Platforms: Google Cloud, Azure Cloud

Methodologies: Agile, Test-Driven Development (TDD), Scrum

Tools: Docker, Git, Visual Studio Code, IntelliJ, Eclipse, Microsoft Office, Matlab

PROJECTS

Event Scheduler | React.js, JavaScript, Java Spring Boot, MongoDB

May 2024 – Present

- Developed a full-stack web application using React.js, Spring Boot and MongoDB to enable event planning and management, improving community engagement
- Designed and implemented RESTful APIs for user registration, authentication, and event creation, leveraging JWT for secure access
- Implemented user and event management features, allowing users to create events, select attendees from registered users, and view events they are participating in a calendar interface

ShapeShyft – Fitness Tracker Website | React.js, TypeScript, FastAPI, SQL

January 2024 – April 2024

- Developed a fitness tracker web application using React.js and Tailwind CSS in an Agile team to allow users to look up and keep track of food throughout the day and exercise.
- Created endpoints using FastAPI to develop a calorie tracker page, enabling users to search for foods, save their consumed items for a day, and monitor their daily calorie intake through a REST API
- Applied Scrum methodologies to guide the project, ensuring adherence to Agile principles and timely delivery of user stories

Full-Stack Amazon Clone | React.js, TypeScript, Express.js, Firebase

January 2024 – February 2024

- Developed an e-commerce SPA using React and TypeScript where a user can view, add products to their cart, and purchase them using a Stripe integration
- Built an API endpoint using Firebase Cloud Functions and Express.js for payment processing
- Utilized Firebase for user authentication, data storage, and real-time updates

Machine Learning Framework for Faults in Electric Grids | TensorFlow, Keras, Python

September 2023 - May 2024

- Built an electric grid fault detector using Python, TensorFlow, and Keras, applying machine learning to enhance grid safety and efficiency, achieving an accuracy of 99.3%
- Developed Multi-Layer Perceptron (MLP) models for both fault classification (with an accuracy of 94.7%) and outage prediction (with an accuracy of 71.56%)
- Utilized Simulink to design a testing bus circuit simulation and generate datasets for training and testing
- Designed a friendly UI using Custom Tkinter for a modern theme

EDUCATION

Toronto Metropolitan University

Toronto, ON

Bachelor of Engineering (B.Eng.): Software Engineering

September 2020 – April 2024

- Dean's List 2023 & 2024 with a GPA: 3.70/4.33
- Relevant Coursework: Machine Learning and Intelligent Systems, Software Testing and Quality Assurance, Distributed and Cloud Computing, Software Design Architecture, Software Project Management, Database Systems, Advanced Algorithms