

Piran Aminullah

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Education

Western University <i>Bachelor's of Engineering Science, Software Engineering</i> <ul style="list-style-type: none">Western Engineering Co-op/Internship ProgramCourse Work: Data Structures and Algorithms, Web Technologies, Databases, Networking, Software Engineering Design, Software Project and Process Management, Software Requirements and Analysis, Software Design, Computer Information Security, Software Testing, Data Science/Machine Learning, Digital Logic Systems, Microprocessors and Microcomputers, Operating Systems, AI 1, AI 2, Cloud Computing, Computer Graphics	London, ON Sept 2020 - Apr 2024
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Work Experience

PawmirPaintings LTD <i>Web Developer Internship</i> <ul style="list-style-type: none">Collaborated with a diverse team of developers, actively contributing ideas and insights for website development.Built the company's website through the integration of JavaScript, CSS, and HTML, leading to enhanced user interaction and navigation.Implemented a robust contact information section using Node.js/Express, addressing user issues promptly.	London, ON Apr 2022 - Sept 2023
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Engineering Projects

Intelligent Traffic Management System (https://github.com/piran777/Capstone) <ul style="list-style-type: none">Engineered a machine learning model that predicts the traffic density at an intersection using a random forest classifier and to accurately forecast congestion patterns and optimize route planning.Developed an advanced heat map algorithm in Python to predict high-traffic areas in London, Ontario so that it can be placed on a google maps UI.Utilized: Python, Pandas, Streamlit, Git, Jira/Confluence.	London, ON
HackWestern 8 Hackathon (https://hack-western-8.devpost.com/project-gallery?page=3) <ul style="list-style-type: none">Participated in one of Canada's largest student-run hackathons competing against 341 participants in a team of 4.Learned from SWE reps of companies such as TELUS, Scotiabank, Sunlife, and participated in pre-event workshops to enhance our ability to create a strong project.48 hour time limit to create a project for the event and compete for awards and \$19,350 in prizes sponsored by the companies present at Hackwestern 8.	London, ON
Full-Stack Blogging Web-App (https://github.com/piran777/Full-Stack-Blogging-Platform) <ul style="list-style-type: none">Designed the front-end using React, providing a responsive and user-friendly interface with a RESTful API using Node.js and Express for handling CRUD operations on blog posts in the back-end.User authentication and authorization using JSON Web Tokens (JWT) is used for secure access to the platform.Used docker and kubernetes to dockerize the application in order to deploy it using GCP.Created full documentation of the program which explains the code and functionality of the program in a ReadMe.Utilized: JavaScript, CSS, HTML, ReactJS, NodeJS/Express, Docker, Kubernetes, JWT.	London, ON
Course Outline Maker (https://github.com/piran777/CourseOutlineMaker) <ul style="list-style-type: none">Produced a functioning website allowing users to create, edit, delete, approve or disapprove outlines that could be used for university courses in the engineering departmentAdmins can determine if the outline is meeting all the criteria and have a separate page dedicated to approving and disapproving outlines which only they can access.Collaborated with a team of 4 through jira/confluence to develop an outline maker where teachers can create outlines and wait for approval for admins who have their own specific login page.Video Demo of the project: https://youtu.be/iSijKl2pH1wUtilized: JavaScript, React, CSS, HTML, Node.JS, Express, MongoDB, Google Cloud Platform (GCP), Jira/Confluence.	London, ON
MyMusicPlayer (https://github.com/piran777/Spotify-Music-App) <ul style="list-style-type: none">Audio streaming app that can create, update, and delete playlists by adding songs and playing them directly from youtube for logged in users.Search by artists, albums, or songs names to find the track and add it to a playlist or to remove it from an existing one.Account creation, verification, deletion, deactivation, and authentication with JWT is integrated. Users that are logged in with an account have more features than guests that have no account.Utilized: JavaScript, React, NodeJS, Express, CSS, HTML, mySQL, Amazon Web Services (AWS), JWT.	London, ON
2D-Maze-Game (https://github.com/piran777/2D-Maze-Game) <ul style="list-style-type: none">Made a 2D maze game with 3 levels using Unity and C# to create the levels for the game and to give movement and actions to the characters within the game using the C# scripts.Had different enemy types in each level with AOE detection/shooting, target tracking and different characters which use different abilities in the game.	London, ON

Technology: JavaScript, ReactJS, NodeJS/Express, Java, HTML/CSS, mySQL, mongoDB, Git, AWS, Jira/Confluence, Docker, Kuberbetes, Google Cloud Platform (GCP), Python, Pandas, C/C++, C#, OpenGL, Linux.