

ANKUR PANDEY

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EDUCATION

McMaster University

Bachelor of Applied Sciences in Computer Science

Hamilton, ON

Sep. 2022 – Present

Relevant Coursework: Data Structures and Algorithms, Intro to Software Development, Development Basics, Intro to Software Using Web Programming, Databases, Algorithms and Software Design, Automata and Computability, Computer Architecture, Concurrent Systems

EXPERIENCE

Front End Developer

Elson Dental Office

January 2023 – August 2023

Markham, ON

- Transformed Elson Dental Office's digital presence with a customized website.
- Attracted new clients and enhanced engagement with existing ones through a user-friendly booking platform.
- Demonstrated proficiency in digital solutions to improve client experience and operational efficiency.

PROJECTS

Recalc | *Elm, GraphicSVG library, McMaster Elm IDE*

January 2023 – April 2023

- Developed a comprehensive math practice web app with interactive tools to enhance users' math skills.
- Created a customizable exam tool, allowing users to set the number of questions and a timer per question, with progress tracking and performance insights.
- Designed a 10-level balloon popping mini-game to make math practice engaging and progressively challenging.
- Compiled a multi-language resource page featuring curated books, YouTube channels, and podcasts to support math learning.

Float | *React, Node.js, MongoDB, TailwindCSS*

Nov 2024

- Built a secure and user-friendly banking web application simulator with features like user search, money transfers, and dynamic profile updates.
- Designed and implemented a custom authentication system using JWT and bcrypt to ensure secure user sessions.
- Developed atomic fund transfer functionality using MongoDB's transactional capabilities, ensuring data consistency and reliability during operations.
- Integrated persistent login sessions for seamless user experience and optimized performance with debounced input handling.
- Designed a responsive and clean user interface using TailwindCSS, adhering to modern design principles and development best practices.

EXTRA CURRICULARS

HackWestern Participant

University of Western Ontario

November 2024

London, ON

Vinculum | *React, Node.js, WebSockets, WebRTC, Pixi.js*

- Developed a real-time collaborative web application that supports multiple users interacting in a shared virtual environment with synchronized movements using WebSockets.
- Integrated peer-to-peer voice chat functionality using WebRTC, enabling real-time communication between users.
- Designed and implemented proximity-based interaction logic to manage efficient event handling and future scalability for spatial audio features.
- Built a dynamic 2D virtual environment rendered using Pixi.js, providing a responsive and immersive user experience.
- Established a modular and scalable backend architecture with Express and Socket.IO, facilitating efficient real-time data handling and seamless synchronization between clients.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, Java, Dart, Haskell, SQL, HTML/CSS

Frameworks: React, Node.js, Express.js, Tailwind, Bootstrap, Next.js, Flutter

Developer Tools/Technologies: Git, Neovim, MongoDB, Firebase, Linux, VS Code, Eclipse

Libraries: Mongoose, Recoil, NumPy, TensorFlow, PyTorch

RELEVANT CERTIFICATIONS

Supervised Machine Learning: Regression and Classification | DeepLearning.AI

July 2023

Advanced Learning Algorithms | DeepLearning.AI

August 2023