

Tathagata Sikdar

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Skills

Languages HTML • CSS • JavaScript | C • C++ • Python • Java | MATLAB • Maple

Software Figma • Illustrator • Photoshop • Premiere | Fusion 360 • Inventor Pro | MS Office Suite

Work Experience

UX/UI Developer • Figma • HTML • CSS • JavaScript • Illustrator • Photoshop

Toronto, ON

Fanique Group

May 2023 - Present

- Collaborated with cross-functional teams to design user-centric **interfaces for web and mobile** applications
- Conducted user research and gathered requirements to inform the design process
- Created **wireframes, prototypes, and visual designs** to effectively communicate design concepts
- Implemented responsive designs and ensured seamless user experiences across different devices

STEM Robotics Instructor | Senior Curriculum Developer • Python • AI & ML

Toronto, ON

Inspirely Education

Sept 2022 - Jan 2022

- Developed engaging project-based Python, Scratch, and Math curriculum, **increasing customer base by 15%**
- Collaborated with colleagues in developing benchmark lessons and identifying curriculum needs of faculty
- Established training documentation and tools to address needs of specific age groups
- Taught engaging online classes using project-based learning

Lead Computer Science Instructor • HTML • CSS • JavaScript • Python • Premiere

Mississauga, ON

NextGen Learning Inc.

June 2022 - Sept 2022

- Delivered engaging curriculum through diverse methods of classroom instruction, computer lab activities, course work, camps, and online learning systems
- Assessed, documented, and reported on student progress in JavaScript, Python, and Scratch courses
- Distributed clear, effective feedback to improve efficiency and quality of student-written programs
- **Addressed systematic issues** with camp and computer science curriculum by collaborating with colleagues

Projects

Sunny - IoT Sunrise Alarm Clock • C • HTML • Fusion 360

🔗 [Git Repo](#)

Personal Project

- Created an **IoT** sunrise alarm clock using an ESP8266 micro-controller
- Designed and **3D printed** a well fitting enclosure to house all electronics
- Implemented **REST API** endpoints in C
- Integrated Sleep as Android and Tasker to automatically create an artificial sunrise before any set alarm

Stand Tall - Posture Tracking Web App • OpenCV • Flask • HTML • CSS • JavaScript

🔗 [Git Repo](#)

Personal Project

- Trained **OpenCV AI model** for posture recognition
- Developed the **Flask backend** to support the web application
- Designed and implemented features to track user posture and provide **real-time feedback**
- Integrated HTML, CSS, and JavaScript frontend with UX/UI principles to ensure optimal user engagement

Education

B.Eng in Mechatronics Engineering Co-op

Hamilton, Ontario

McMaster University

Sep. 2021 - Apr. 2025

- Courses: Robotics, Control Systems, Electronics, Mechanical Design, Mathematical Modeling