Tathagata Sikdar

Mississauga, ON

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Skills

Languages	HTML · CSS · JavaScript · TypeScript	C · C++ · Python · Java · Go	MATLAB · Maple
Technologies	Figma · Illustrator · Photoshop	Fusion 360 · Inventor Pro · SolidWorks	MS Office Suite
Frameworks	React.js · Electron	Node.js · Flask	Bootstrap · Tailwind · Sass	SQL · Firebase

Work Experience

UX/UI Developer · Figma · React.js · Illustrator · Photoshop　　　　*Toronto, ON*

Fanique Group　　　　*May 2023 - Present*

- Collaborated with cross-functional teams to design user-centric **interfaces for web and mobile** applications
- Employed user research insights and gathered comprehensive requirements to drive the iterative design process
- Translated concepts into impactful **wireframes, prototypes, and visual designs**
- Ensured **responsive designs** for seamless user experiences across devices

STEM Robotics Instructor | Senior Curriculum Developer · Python · AI & ML　　　　*Toronto, ON*

Inspirely Education　　　　*Sept 2022 - Jan 2022*

- Formulated project-based Python, Scratch, and Math curricula, **increasing customer base by 15%**
- Coordinated with peers to create benchmark lessons and documentation to cater to faculty needs
- Designed training resources for different age groups, enhancing teaching efficacy
- Taught captivating online classes using project-based techniques

Lead Computer Science Instructor · JavaScript · Python · Premiere　　　　*Mississauga, ON*

NextGen Learning Inc.　　　　*June 2022 - Sept 2022*

- Enriched learning via dynamic classroom, lab, online sessions in JavaScript, Python, Scratch
- Monitored, documented, and communicated student progress effectively
- Optimized student code quality through constructive and clear feedback
- Collaboratively tackled curriculum and camp improvements, fostering innovation

Projects

Sunny - IoT Sunrise Alarm Clock · C · Fusion 360 · REST API　　　　⬡ *Git Repo*

Personal Project

- Created an **IoT** sunrise alarm with ESP8266, simulating natural wake-up
- Crafted a custom **3D-printed** enclosure for streamlined electronics housing
- Engineered **REST API** endpoints in C, enabling seamless communication
- Integrated automated HTTP requests for phone synchronized artificial sunrises

CAN Data Dashboard · Go · Grafana · CAN IoT · SQL · AWS　　　　*McMaster University*

McMaster Formula Electric

- Integrated data from **CAN Bus IoT** system to provide real-time information on the electric vehicle's performance
- Implemented custom data visualization widgets to display key metrics such as battery voltage and temperature
- Ensured data accuracy and reliability by setting up **data processing** and filtering pipelines

Education

B.Eng in Mechatronics Engineering Co-op　　　　*Hamilton, Ontario*

McMaster University　　　　*Sep. 2021 - Apr. 2025*

- Courses - Robotics, Control Systems, Data Structures & Algorithms, Database Management, Electronics
- McMaster Formula Electric - Software and Controls Team | Website Maintenance
- McMaster Engineering Society - Graphic Design VP