

## Swagat Samal

Full-Stack Developer | React.js | Node.js | JavaScript | TypeScript

Waterloo, Ontario, N2T 2T3

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GitHub: <https://github.com/ssamal2801>

## Highlights

- Strong web development skills in HTML, CSS, modern JavaScript (ES6), Node.js, Express, jQuery, Vue.js, React.js, Bootstrap, XML, JSON, and XAML.
- Passionate about code optimization, data structures, and algorithms.
- Proficient in object-oriented programming languages like C#, C++, Java, and Swift.
- Experienced in creating web applications using React.js and Vue.js in an Agile environment.
- Skilled in creating and consuming REST APIs, handling JSON data, and working with databases like MySQL, Microsoft SQL Server, and MongoDB.
- Experience with Unit Testing, Integration Testing, and User Testing.
- Proficient in creating wireframes using Adobe XD and Figma.
- Experienced in using version control systems like Git, GitHub, and Azure DevOps Repo.
- Knowledge of agile project management tools like Jira, and Azure DevOps Boards.
- Experience with Software Development Life Cycle (SDLC) - Agile and Waterfall.
- Customer-focused, self-driven, and capable of working in a fast-paced environment.

## EXPERIENCE

**Software Developer** - Sienci Labs, ON, Canada (June 2022 - Present)

- Optimized and added features to gSender, a web and desktop (Electron) app for operating CNC machines.
- Developed a workflow to visualize 3D G-Code models using Three.js with  $O(n^2)$  time and space complexity.
- Improved data visualization performance by 9%.
- Built reusable and optimized React components to ensure consistency throughout the app.
- **Skills:** React.js, Redux.js, JavaScript, TypeScript, Chart.js, Three.js, Node.js, Express.js, Socket.io, Storybook, HTML5, CSS3, SCSS, LESS/Stylus, Electron, Jest, React Material UI.

**Software Developer** - Karmax Heavy Stamping - Magna Cosma, ON, Canada (Jan 2022 - April 2022)

- Contract with Conestoga Applied Research
- Worked in an Agile team of Full Stack developers and developed an attendance and production record system for an automobile parts manufacturing plant.
- Optimized data retrieval by 5% and visualization by 12%.
- Designed web pages using Vue.js, HTML, JavaScript, TypeScript, CSS, and page design principles.
- Implemented JSDoc for code documentation and performed Unit and Integration testing.
- Utilized Azure DevOps for version control.
- **Skills:** Vue.js, JavaScript, HTML, SCSS, Node.js, TypeScript, MySQL, REST API, Postman, Jest.

**Student Software Developer** (Co-op), Conestoga College - Applied Research & International Education, ON, Canada (Sept 2021 - Dec 2021)

- Developed a digital twin for Conestoga Applied Research to implement in their production labs.
- Designed web pages using Vue.js, HTML, JavaScript, CSS, and page design principles.
- Modified existing CAD files and used them on a web app to visualize real-time data from sensors.
- Followed agile methodology for application development and performed Unit testing.
- **Skills:** Vue.js, Babylon.js, Kafka, JavaScript, HTML, SCSS, Node.js, MySQL, REST API, Azure DevOps.

**Customer Experience Specialist** - Etech Global Services, Gandhinagar, India (Aug 2018 - Jul 2020)

**Online Chat Representative** (Jun 2017 - Feb 2018)

- **Skills:** Desktop and mobile device troubleshooting, problem-solving, customer interaction, negotiation, attention to detail, and meeting deadlines.

## PROJECTS

**gSender** – A web and desktop (Electron) app with new features for easier CNC calibration, surfacing, tool changing, and firmware control.

- GitHub Link: <https://github.com/Sienci-Labs/gsender>
- **Skills:** React.js, Redux.js, JavaScript, TypeScript, Chart.js, Three.js, Node.js, Express.js, Socket.io, Storybook, HTML5, CSS3, SCSS, LESS/Stylus, Electron, Jest, React Material UI.

**WHIM** – A MERN stack web application that helps users find and learn new hobbies.

- GitHub Link: <https://github.com/ssamal94/whim-frontend>
- **Skills:** React.js, JavaScript (ES6), HTML5, SCSS, MongoDB, JWT web token, React MUI, APIs.

**WHIM-Backend** – A Node.js application to manage WHIM's business logic and database.

- GitHub Link: <https://github.com/ssamal94/whim-backend>
- **Skills:** Node.js, JavaScript (ES6), MongoDB, JavaScript Web Token (JWT), Azure DevOps.

**Student Record System** – A React.js app that fetches data from an API to display and search through records.

- GitHub Link: <https://github.com/ssamal94/students-record>
- **Skills:** React.js, JavaScript (ES6), HTML5, SCSS, React MUI, APIs.

## EDUCATION

- **Mobile Solutions Development (Co-op) – Post Graduate Certificate** (Jan 2021 - April 2022)  
Conestoga College, Waterloo, ON

- **Bachelor of Technology, Computer Science** (August 2013 - June 2017)  
Synergy Institute of Engineering and Technology, India

**INTERESTS** - Technology, Motorcycles, Videography, and Traveling.