

Swagat Samal

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

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Highlights

- Nearly 2 years of industry experience creating full-stack web apps in an Agile environment.
- Strong web development skills in but not limited to HTML, CSS, modern JavaScript (ES6), Vue.js, React.js, Three.js, Node.js, Express.js, WebGL, jQuery, 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.
- 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 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.
- Client-focused, self-driven, and capable of working in a fast-paced environment.

EXPERIENCE

Software Developer - Sienci Labs, ON, Canada (June 2022 - June 2023)

- 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%.
- Implemented algorithms for 4-axis visualization of toolpaths using WebGL.
- Took part in code reviews and maintenance of numerous aspects of the product.
- **Skills:** React.js, Redux.js, JavaScript, TypeScript, Chart.js, Three.js, Node.js, Express.js, Electron.js, WebGL, Socket.io, Storybook, HTML5, CSS3, SCSS, LESS/Stylus, Jest, React Material UI.

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

- In a 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 giant.
- 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.
- **Skills:** Vue.js, JavaScript, HTML, SCSS, Node.js, TypeScript, MySQL, REST API, Postman, Jest, Azure DevOps.

Student Software Developer - 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 sensor data.
- 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:** Internet and TV device troubleshooting, client interaction, selling hardware, scheduling tech visits.

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

- **Post-Graduate Certificate, Mobile Solutions Development (Co-op)** (Jan 2021 - April 2022)

Conestoga College, Waterloo, ON

- **Bachelor of Technology, Computer Science** (August 2013 - June 2017)

Biju Patnaik University of Technology, India

INTERESTS - Technology, Motorcycles, Videography, and Traveling.