

# Tristan Guest

Halifax, Nova Scotia  
[tristanguest.dev](https://tristanguest.dev)

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I like collaborating with startups to build effective, scalable systems. I work with full-stack tools to create user-focused solutions and streamlined development workflows. My core expertise is in TypeScript, React, Node.js, and Python, and from my background in the physical sciences, I bring over 10 years of experience working with data and a developed sense of academic rigour.

## EXPERIENCE

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<b>Owner / Software Engineer</b>	<b>Fine Day Technologies</b> Hubbards, NS (remote)	<b>2023 - present</b>
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- Working on a contract basis with startups and SMBs delivering end-to-end solutions with full-stack development services
- On long-term contract with BiggerPicture (see below)

[TypeScript](#), [React.js](#), [Node.js](#), [Next.js](#)

<b>Software Engineer</b>	<b>BiggerPicture</b> San Francisco, CA (contract, remote)	<b>2022 - present</b>
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- Contracted by a YC startup (S22) for a from-scratch rewrite of their SaaS logistics platform, scaling from zero to 1000s of monthly appointments in the U.S.
- Working closely with the CEO, CTO, and clients to build out API infrastructure and third-party integrations, producing industry-leading scheduling solutions in the logistics space

[TypeScript](#), [React.js](#), [Node.js](#), [Next.js](#), [tRPC](#), [API design](#), [Prisma/PlanetScale/MySQL](#), [LLMs](#)

<b>Senior Software Developer</b>	<b>Luna Sea Solutions</b> Lunenburg, NS (hybrid)	<b>2021 - 2022</b>
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- Lead development of a full-stack SaaS product at an ocean tech startup (see [lunaocean.app](https://lunaocean.app))
- Built a GPU-powered particle animation engine for visualizing ocean currents, wind, and waves using WebGL

[TypeScript](#), [React.js](#), [Next.js](#), [Node.js](#), [Python](#), [MongoDB](#), [AWS](#), [MapboxGL JS](#), [WebGL](#)

<b>Software Developer</b>	<b>Luna Sea Solutions</b> Lunenburg, NS (hybrid)	<b>2020 - 2021</b>
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- Managed development of Python-based software packages and products as an early hire and technical lead
- Facilitated architecture planning for a greenfield data access platform based in Next.js
- Authored an industry-leading report advising on the use of software tools in the ocean energy sector

[Python](#), [JavaScript](#), [React.js](#), [Git](#), [GitHub](#)

<b>Doctoral Researcher</b>	<b>Ocean Acoustics Laboratory</b> Dalhousie University, Halifax, NS	<b>2013 - 2020</b>
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- Built custom software infrastructure in Python for managing, analyzing, and visualizing physical data, specializing in signal and image processing, computer vision
- Communicated technical content to varied audiences through popular/academic articles, local/international conference talks

[Python](#), [C](#), [Git](#), [GitHub](#), [Linux network administration](#), [technical writing](#)

## EDUCATION

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<b>PhD, Physical Oceanography</b> Dalhousie University	<b>2013 - 2020</b> Halifax, NS
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<b>BSc, Mathematics</b> Dalhousie University	<b>2008 - 2013</b> Halifax, NS
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