

# Matthew Trent

Full stack software developer with 5+ years of experience  
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All links available here!



matthewtrent.me/resume

## Education

University of Victoria, BSc in Honors Computer Science (sr.)

2021 ~ August or December 2024

- A+ average.
- Near full-ride UVic Excellence Academic Scholarship.
- BC Achievement Scholarship for top-provincially grade 10, 11, and 12 marks.
- Abbotsford School Scholarship.

## Skills

**Proficiency statement:** Everything here I am comfortable working in and have likely built many things with before. However, C, C#, Java, and C++ I haven't worked with in a while, and would require a brief refamiliarization period. For DS&A, like most people, I'm most comfortable in Python.

**Frontend:** Flutter, Dart, HTML/CSS, Javascript, Typescript, React.js, Next.js, Bootstrap, Tailwind, jQuery, and EJS.

**Backend:** Rust, Golang, Java, Python, Node.js, Express.js, Gin, C, C#, C++ and Actix-web.

**Tooling:** GCP, AWS, Git/GitHub, Heroku, Vercel, Figma, Jupyter Hub, GitHub Actions, and Docker.

**Databases:** MongoDB, Firebase RTD & Firestore, Hive & Drift, Gorm, Mongoose, Redis, Supabase, and SQL-based DBs.

## Hackathons

- **University of Victoria Engineering Competition 2023:** 1st place after coding a full stack tutoring service app.
- **UVic AI ultimate tic-tac-toe:** Developed a competitive heuristic-based Monte Carlo tree-search algorithm bot.
- **Island Health CODE HACK 2023:** Recognized for hacking the hackathon pre-event, discovering serious security vulnerabilities.

## Professional Experience

**Startup: Confesi**

March 2022 - Present

*Founder, lead developer*

- Cross-platform social media mobile application exclusively for university students.
- Leading a team of multiple developers, coordinating daily collaboration and development.
- Very large project: I've written hundreds-of-thousands of lines of code.

**CORTEX Labs**

September 2023 - Present

*Research assistant, developer*

- Mapping evidence on mental health and addictions treatments for people with acquired brain injuries.
- Collaborated with a multidisciplinary team to align website functionalities with research objectives.

**Startup: Stend**

December 2021 - October 2022

*Frontend team lead, co-founder*

- Collaborated with a team of 11 in an attempt to build a cross-platform application dedicated to curating demographic-based reviews for local attractions and businesses.
- Built with Flutter, Dart, Figma, C++ (Drogon), and Neo4J.

*Software developer*

- Delivered a Flutter technology presentation to a boardroom of company executives and developers, resulting in the potential adoption of Flutter for the company's internal software and immediate hire.
- Integrated third-party authentication, allowing backend to validate a user's identity.
- Designed data mapping tables with optimized search capabilities.
- Developed date and time range selectors to streamline employee time-logging.

**Relevant Projects****Community packages for Flutter, Dart, & Golang • published****2022 - Present**

- Developed 6 open-source packages that are being used in many real-world applications today.
- The Flutter/Dart packages (5) add functionality to apps such as: haptics and keyboard dismissing during scrolling, in-app notification banners, short-hands for media queries and layouts, number and string formatters, advanced animations, and a remote kill switch to shut off access to an app post-creation. The Golang package (1) adds multiple forms of encryption for sensitive fields in model structs.

**Personal website/blog frontend, backend • published****June 2023 - Present**

- Server deals with the authenticated creation, and public distribution of markdown blog articles.
- Includes: portfolio, socials, live JSON stats, and a multifaceted blog (series, articles, tags, etc.).
- Built with Next.js, Typescript, MySQL, Redis, Heroku, Vercel, HTML, CSS, React.js, JSON, Redux.

**GitHub contribution graph "painter" • published****June 2023**

- A Next.js web app allowing a user to paint a custom calendar pattern, and then click "download" where the application then generates a Bash script that uploads commits to their account matching that design.

**iMessage clone****May 2023**

- Custom Websocket actor implementation.
- "User active now" indicator, realtime chat, deleting messages, caching, pagination, security, etc.
- Backend built in Rust with MongoDB, client in Flutter and Dart.

**Stackoverflow badge generator for GitHub profiles • 30,000+ uses in a dozen countries****April 2023**

- Rust-based API that dynamically generates a statistics badge for a user's Stackoverflow account that is embeddable via markdown into their GitHub README.md.

**Leetcode auto-solver bot • sold commercially****January 2023**

- Collaborated with a fellow developer to build a Python (Selenium) bot that lets you select a language and difficulty, and it auto-completes every question on your account with > 95% submission acceptance, beating 5,000,000 other users in < 1 day, vaulting a user to the top < 0.01% of Leetcode's user base.

**Image to audio converter • machine learning****June 2020**

- Built a mobile app that uses Firebase machine learning alongside Flutter, allowing you to take a picture of text on a piece of paper, and have the app read it aloud to you. Voice and reading speed can be changed, too.

**Other Notable Accomplishments**

- Built a 76,000+ person audience on my software development Instagram pages.
- Founded an ~900-member software development Discord server to assist beginners in learning to code.
- Achieved ~90 top-3 cross-country/track-and-field/triathlon finishes over a decade of competitive racing.
- Created multiple e-commerce brands, selling products to dozens of countries world-wide.
- Contributed to Abbotsford Youth Council (2018-2020) by spearheading city events and collaborating with city councilors and the mayor.