

Simon TENGREN

Software Engineer

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Software developer with 4+ years of experience primarily working with backend development, most notably in Node.js with TypeScript. Passionate about writing performant, maintainable, and testable code, especially in languages leaning towards the functional paradigm. I love working in teams where knowledge sharing is in focus, and enjoy getting the chance to explore new languages and technologies.

My free time is split between spending time with my loved ones, working towards my next max deadlift, exploring new recipes, perusing antique shops, and reading new and classic literature.

SKILLS

Programming Languages	TypeScript, SQL, JavaScript, Python, C#, Java, C, Haskell
Frameworks and Libraries	WebRTC, NodeJS, React, NestJS, ExpressJS, Cypress, Jest, Mocha/Chai
Tools and Services	Linux, Docker, JWT, Google Cloud Platform, Git, GitHub Actions, PostgreSQL, MongoDB, Elasticsearch, Terraform, Prisma ORM, Vite
Methodologies	Test Driven Development (TDD), Behaviour Driven Development (BDD), Agile, Functional Programming, OOP, CI/CD

EXPERIENCE

Today June 2024	Fullstack Developer - Consultant, MEDIATOOL, Malmö New assignment at Mediatool to aid with their biggest client to date, and to improve current data aggregation in Mediatools reporting service. Here I was introduced the Shape-Up methodology, working in small focused teams for six week "sprints". Elasticsearch Shape-Up Methodology NodeJS NodeJS Streams TypeScript React
May 2024 Sept. 2023	Backend Developer - Consultant, INGKA, Malmö Backend developer in the Mobile Application Team (IKEA App on Android/iOS). Contributed to the backend services, using NestJS and TypeScript. Here I learned more about Google Cloud Platform (GCP), including Google Cloud Run for hosting our containerized application, Google Pub/Sub for application messaging, and Cloud Functions for both HTTP request and event handling. Led initiatives on improving code quality, such as introducing and enforcing code standards and proper unit and E2E testing, as well as teaching good TypeScript practices . Hosted knowledge sharing events each Friday with my colleagues on the backend team to share perspectives and ideas. Google Cloud Platform (GCP) Docker Cloud Run Cloud SQL NestJS Terraform TypeScript GitHub Actions CI/CD PostgreSQL Prisma Configuration Management
June 2023 Sept. 2022	Fullstack Developer - Consultant, MEDIATOOL, Malmö Mediatool aids organizations world wide with their marketing campaign management through their SaaS Webapp. I was assigned to help them implement several larger features requested by their largest customer to date. My role in during this assignment was primarily as a backend developer in a small and focused team that moved at a fast pace to implement features and generalize them to fit both the customer that requested them and other current and future customers. I also interacted with stakeholders, to ensure requirements for transitions to and within the platform went as smoothly as possible. The result was several high value features that were met by high praise from several of Mediatools customers, and helped in getting more customers in the future. BDD (Behaviour Driven Development) Cucumber/Gherkin Elasticsearch Event Sourcing Functional Programming JavaScript Mocha/Chai MongoDB NodeJS React RollupJS Test Driven Development TypeScript SaaS
Today Aug. 2022	Software Consultant, TRETTON37, Lund tretton37 is a software consultancy company where I worked as a web developer with the main focus on backend development. At tretton37 I partook in the knowledge sharing culture , regularly attending and contributing in events, holding presentations mostly about what I find interesting at my assignment and in my free time. Business Relations Public Speaking Knowledge Sharing

Aug. 2021 June 2021	Software Developer / Summer Intern, AXIS COMMUNICATIONS AB, Lund During the internship I got experience with developing a large product using modern engineering practices such as code reviews, CI/CD, and Agile practices. Gaining experience and respect for modern practices. <ul style="list-style-type: none"> > Learned how to apply my knowledge to a new code base in a unfamiliar language. > Developed a tool to improve the localization process for better accessibility to the customer. > Learned Agile practices and the value it contributes to the process.
Oct. 2019 April 2019	Student Consultant / Developer, FORTLAX DATACENTER, Malmö I worked as a student consultant at Fortlax Datacenter mainly doing work as an API developer using NodeJS. Occasionally doing frontend work as well. <ul style="list-style-type: none"> > Got some experience working in real life environment. > Learning new technologies quickly. > Making decisions that make an impact.
Jan. 2019 Nov. 2018	Teachers Assistant Programming Basic Course, JAVA, Lunds tekniska högskola During my studies I worked as a teachers assistant in the basic programming course at LTH. <ul style="list-style-type: none"> > Practice my educational skills > Hone my communication skills > Rehearse the basics > Get new perspectives on old problems

EDUCATION

2016 - 2022 Information and Communications Technologies, M.Sc. Engineering Program, LTH, Lund University

PROJECTS

BARCABI.NET

2023

 barcabi.net  github.com/taffr/barcabinet

Website for finding cocktails, given a list of ingredients that might be in your cabinet at home. Built using React, NestJS as I practiced learning Cloud Run and NestJS for my upcoming assignment.

         

PERSONAL WEBSITE

2023

 simontenggren.xyz  github.com/taffr/website

Personal website built using React as Single Page Application. Read about me and my personal interests and hobbies, and general thoughts in my blog

   

INTEGRATION AND EVALUATION OF WEBRTC IN AN EXISTING .NET ENVIRONMENT (M.SC. THESIS)

2021-2022

 [Paper](#)

My masters thesis performed at LTH and Axis Communications where I integrated and evaluated WebRTC as streaming alternative in the specific .NET environment used in video management systems developed by Axis. Here I learned the full WebRTC stack from scratch, as well as how to adapt to the constraints and requirements which were present and still come up with a viable solution. Evaluating and optimizing the implementation by using QoE metrics and profiling tools along the way.

   

A SPECIALIZED B-TREE DATA STRUCTURE FOR DATALOG EVALUATION IN JAVA

2020-2021

 [Paper](#)  [Source Code](#)

Java implementation of the Specialized B-Tree by the Soufl  team. For use in Datalog engines powered by Java. Specialized hint and synchronization for semi-na ve evaluation. Evaluated and compared to other datastructures in the Java runtime library on performance metrics such as memory usage and execution speed.

     

GENERAL TEXT PREPROCESSOR

2020

 github.com/taffr/GeneralTextPreprocessor  [Demo](#)

A General Text Preprocessor inspired by the C-preprocessor. Allows for definitions of macros both simple text replacement and functions. Recursive macro definitions, function calls, and conditional statements.

 

LANGUAGES

English	●	●	●	●	●
Swedish	●	●	●	●	●
French	●	●	○	○	○

STRENGTHS

- > Disciplined
- > Listening
- > Autonomous
- > Analytic
- > Persistent

REFERENCES

On demand.