

Evan Roman

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Relevant Experience

- May 2022 - **Developer**, *Loikka*, Turku, Finland
Current I work on a team developing a SaaS for management of subscriptions, specifically for management of insurance policies and claims.
- Develop back-end API in Node.js with Express and ArangoDB
 - Develop front-end SPA in TypeScript with Next.js
 - Migrated older Next.js codebases to newer Next.js versions
 - Implemented CI infrastructure using Gitlab, Google Cloud Platform, and Kubernetes
- October 2023 **Teaching Assistant**, *Åbo Akademi University*, Turku, Finland
- December 2023 I gave lectures for a masters course in Computer Engineering
- May 2021 - **Developer**, *Digital Onboarding*, Boston, MA
September 2021 I worked on a team improving a marketing tool for banks and credit unions.
- Developed back-end API in Elixir using Phoenix and Ecto with PostgreSQL
 - Developed front-end SPA in React and Redux
- December 2018 - July 2019 **Senior Developer**, *New York, NY, SAM*
I was the technical co-founder to a startup. The project went on hiatus indefinitely due to cofounders (including myself) having other obligations.
- Designed API with founders in OpenAPI on Swagger
 - Developed front-end for SPA in React and back-end in Django
 - Created DevOps system with Docker and provisioned on AWS
- January 2017 **University Lecturer**, *Tallinn University of Technology*, Tallinn, Estonia
- January 2018 I taught "Fundamentals of Python" and "Advanced Python" to bachelors students
- Tested students ability to use primitive data types, Lists, and Dictionaries using a file with three unit tests
 - Gave lectures and excercises on python features including concurrency with threads and asyncio, decorators, iterators, generators, and comprehensions
 - Created challenges and aided students with popular libraries, like Django, Flask, NumPy, Pandas, Request, and Scikit-learn

- October 2015 **Lead Developer**, *Like A Local Guide*, Tallinn, Estonia
- February I took full responsibility for the maintenance and development of "likealocalguide.com".
 - 2017 I furthered the company's vision of the project, evolving the website to a more social platform. As the main steward of the project, I lead other developers who also worked on the project.
 - Implemented Sales Funnels from Google Analytics, finding what steps users got lost when booking tours and adding content
 - Extracted, Transformed, and Loaded (ETL) over 100,000 cities from GeoNames, while deduplicating matching the cities from GeoNames to our existing cities
 - Migrated deployment from Archlinux to CentOS
 - Increased site speed on pages by caching expensive operation results with redis and query optimization with PostgreSQL
 - Maintained CentOS server and CentOS Vagrant development environment
 - Scaled product by adding PgBouncer, upgrading server hardware, and appropriately tuning number of worker processes to new hardware
 - Implemented designs and features on the front-end with SASS and jQuery and on the back-end with Django
 - Interviewed and managed other developers working on the project
 - 2015 **Developer**, *Cakebet*, San Francisco
 - I contracted as a developer for a Bitcoin casino.
 - Built a currency converter for covering most fiat and numerous cryptocurrencies, that could update at a very high frequency (<3 seconds)

Education

- September **MS Computer Science**, *Åbo Akademi University*, Turku, Finland
- 2021 - June ○ Received full tuition merit scholarship
- 2023 ○ Thesis: *Performance of Special-Interest Voting Advice Applications in the 2023 Finnish Parliamentary Election* .
<https://www.doria.fi/handle/10024/187299>
- May 2018 - **BA Mathematics**, *Thomas Edison State University*, Trenton, New Jersey
- March 2020 Bachelor's project: *Explaining Black Boxes: Interpretable Machine Learning*. GPA 3.8/4.0

Skills

Programming Languages: Python, JavaScript (ES5, ES6, TypeScript), Elixir, Rust, Shell (Posix, bash), Emacs Lisp, Matlab/Octave, R.

Frameworks & Libraries: React, Next.js, Phoenix, Ecto, JQuery, Django, Flask, Pandas, Numpy, Sparklyr, D3.js.

Document Languages: HTML, Markdown, reStructuredText, \LaTeX , OpenAPI (swagger).

Databases: PostgreSQL, MySQL, SQLite, Redis, MongoDB, Apache Spark, ArangoDB.

Deployment Environments: Docker, Docker Compose, RHEL (CentOS), Vagrant, Kubernetes, Cloudflare Serverless.

Projects and Open Source

Grid Validator, <https://evrom.github.io/grid/>

Validates, previews, and helps debug grid-template-areas CSS property values.

- Built Grid Validator with TypeScript and React
- <https://github.com/evrom/grid-validator> 🔗

Stylelint, <https://github.com/stylelint/stylelint/>

Added a new validation rule to Stylelint

- Validates named-grid-areas-no-invalid to meet W3C specifications
- Give useful error messages to find where in the template string there is non-contiguous or non-rectangular values
- <https://github.com/stylelint/stylelint/pull/5167> 🔗

Hurst, <https://crates.io/crates/hurst>

Calculates estimated Hurst exponent on time series data.

- Published WebAssembly package on NPM
- Written in Rust
- <https://github.com/evrom/hurst> 🔗

Hurst Exponent, <https://evrom.github.io/hurst-exponent/>

View estimated Hurst exponent of time series data.

- Built with TypeScript, React, and D3.js
- Uses Hurst compiled to WebAssembly.
- <https://github.com/evrom/hurst> 🔗

This Resume, <https://github.com/evrom/resume>

View the source of this resume in \LaTeX .