

# Evan Roman

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## Relevant Experience

- May 2021 - **Developer**, *Boston, MA*, Digital Onboarding.  
September 2021 I worked on a team improving a marketing tool for banks and credit unions.  
● Developed backend API in Elixir using Phoenix and Ecto with PostgreSQL  
● Developed frontend SPA in React and Redux
- December 2018 - **Senior Developer**, *New York, NY*, SAM.  
July 2019 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 frontend for SPA in React and backend 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 exercises 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 2017 I took full responsibility for the maintenance and development of "likealocalguide.com".  
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 frontend with SASS and jQuery and on the backend 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 2021 - **MS Computer Science**, *Åbo Akademi University*, Turku, Finland.  
July 2023 Received full tuition merit scholarship

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, Phoenix, Ecto, JQuery, Django, Flask, Pandas, Numpy, Sparklyr, D3.js.

**Document Languages:** HTML, Markdown, reStructuredText,  $\text{\LaTeX}$ , OpenAPI (swagger).


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

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

## Projects and Open Source


**Grid Validator**, <https://gridvalidator.com/>

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**, <http://hurstexponent.com/>

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  $\text{\LaTeX}$ .