Evan Roman

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Relevant Experience

2018–2019 — **Senior Developer**, *New York, New York*, 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 frontend for SPA in React and backend in Django
- Created DevOps system with Docker and provisioned on AWS

2017–2018 — **University Lecturer**, *Tallinn University of Technology*, Tallinn, Estonia.

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

2015–2017 — **Lead Developer**, *Like A Local Guide*, Tallinn, Estonia.

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.
- Implemented Sales Funnels from Google Analytics, finding what steps users
- Built a currency converter for covering most fiat and numerous cryptocurrencies, that could update at a very high frequency ($<$3 seconds)

Education

September 2021 - July 2023 — **MS Computer Science**, *Åbo Akademi University*, Turku, Finland.

May 2018 - March 2020 — **BA Mathematics**, *Thomas Edison State University*, Trenton, New Jersey.
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, 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-congtiguous 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 LaTeX.