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David Rosson

Skills

JavaScript: strong fundamentals, understanding of objects, inheritance, data structures, ES6, modular, modern flavour and style; Node: event-based patterns, promises, reactive programming; state management, observables, immutables; "framework thinking", understanding the structure and purpose of Backbone or Knockout or React+Redux; npm, Grunt, webpack, build automation; some interaction with CI, e.g. Jenkins; unit testing, Jasmine, Karma; REST, API Integration, relational databases, NoSQL e.g. MongoDB; UI work centered around transforming API data for the presentation layer; Chrome DevTools, HTML5, CSS, preprocessors e.g. LESS, Maintainable CSS, Bootstrap, reusable UI Design System; team processes, Git, branch workflow, code review, JIRA, Bash scripting, basic Python, web scraping, Puppeteer tests

+ Well-versed in JavaScript and frontend technologies. Top 10% in Algorithms on HackerRank.
+ Experienced in UI development and the engineering process of large-scale enterprise products.
+ Familiar with architecture considerations for scalability, security, and robustness in a complex system.
+ Emphasis on tooling, automation, workflow, quality through tests, maintainability, and iteration cycles.
+ Proponent of rapid prototyping and evidence-driven design focused on real-world user experience.

Experience

Since 2019 **Ultimate.ai** — Frontend Developer, React, Dashboard and Analytics UI, Visualisation

2015 - 2017 **Cloudera NYSE: CLDR** — Software Engineer, UI and Data Visualization

Highlights: My most impactful role was being an instigator of change, in modernising the build system of a legacy code base and adopting webpack and a wide range of future-oriented practices, and building a more design-centric culture. I worked on a Common UI project to unify the frontend across a number of products in close teamwork with designers. As the sole frontend engineer on a new cloud analytics product, I delivered highly usable features in quick iterations.

Case Studies: *Examples to illustrate strengths and style of working*

Mosaic Challenge: image processing task, highly optimised frontend and server-side, 100x as fast as vanilla solutions

Flipboard Challenge: overdelivering on a maze-solving challenge with animated style matching the company's product

Historical Map: incorporating historical map tiles, fast, efficient rendering and hiding of a large number of data points

Event Visualisation: fetched all Wikipedia historical events with scripts on a remote Jupyter server; chased a bug (present in the library's own demo) all the way to D3 and timezone handling, and patched the issue in the app

Mensa Chatbot: integrating data for cafeteria menus, using Dialogflow's Natural Language Understanding to resolve user intents; chat interface implemented in Telegram; also ported Eliza bot and instant-translation bot just for fun

Shell Scripting: example of learning curve, writing a script for Hadoop system tests; first day: had no idea; second days, script was buggy; third day, script ran; fourth day, made it 10x faster; fifth day, made it many times faster again

Goethe Institute: consulting on digitalisation of learning; React prototyping; speech recognition related technologies

Hobby Projects, a number of language related apps: slideshow with audio for vocabulary learning; listening exercises with live interaction and visual effects; Finnish-English dictionary with instant search

In summary, I excel at seeing the patterns and making connections very quickly. Some types of skillfulness rely on semantic memory and familiarity, for that I read the docs and StackOverflow, and become good after diving into it.

Education

2017 - 2019 **Technische Universität Berlin** — Master of Science, Speech Technology

2017 - 2019 **Aalto University** — Master of Science (Technology), Human-Computer Interaction

2012 - 2015 **Macquarie University** — Bachelor of Science, Linguistics; *Exchange at University of Jyväskylä*

Personal Interests

Linguistics, Speech Tech, Cognition, Virtual Reality, Automation, Utopian Cities, Urban Planning, Architecture, Design