Tristan Kast

💼 EXPERIENCE

Software Engineer   **02/2020 - currently**
Max Planck Unit for the Science of Pathogens, Berlin

- Bioinformatic analysis and visualization of heterogenous data, often generated by CRISPR experiments, in Python / Jupyter Notebooks
- Full-Stack Development of an internal webpage to interact with the institute's sample database and do basic data science / data visualization
  - Stack: Vue.js, Javascript, HTML, CSS, Flask, Python, MongoDB, NGINX, Gunicorn, Supervisor

Computational Scientist   **03/2019 - 08/2019**
German Center for neurodegenerative Diseases, Tuebingen

- Bioinformatic analysis of clinical bulk and SingleCell RNA-Seq data in R and Python
- Scripting of analysis pipelines for different kinds of data, e.g. MicroRNA-Seq or CAGE-Seq, using Snakemake, Nextflow and Docker
- WGS assembly and structural variant detection (HiSeq, MiSeq, NovaSeq, ONT)

Research Assistant   **04/2017 - 03/2018**
Eberhard Karls University, Tuebingen

- Implementation of a RESTful API for ArangoDB
  - Stack: Java, SQL (AQL)
- MD - Simulations with GROMACs and PyMOL

🎓 EDUCATION

Master of Science Bioinformatics   **10/2016 - 01/2019**
Eberhard Karls University, Tuebingen

- Advanced knowledge in Python, R and Javascript
- Focus on data analysis and visualization
- Practical course I : Bioinformatic Tools
- Practical course II: Integrated Bioinformatics
  - Integration and unification of heterogenous data
  - Explorative and ML supported analysis and visualization

Bachelor of Science Bioinformtics   **04/2012 - 10/2016**
Eberhard Karls University, Tuebingen

- Basic knowledge of multiple languages, e.g. Java, C++ and Javascript
- Basic knowledge of algorithms, data structures and network technologies
- Theoretical and technical aspects of ComputerScience

📜 CERTIFICATES

Machine Learning   **Responsive Web Design**
Stanford University, Coursera   freeCodeCamp

Nextflow Workshop   **JavaScript Algorithms and DataStructures**
                                             freeCodeCamp
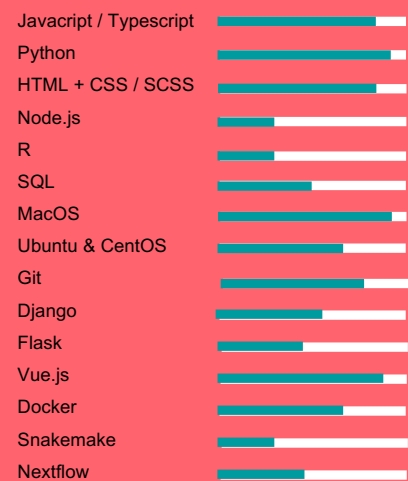
🎮 HOBBIES & INTERESTS

- Web Development
- Urban Jungle
- Cooking
- Travelling / Backpacking
- Scuba diving
- Running
- Freeletics / BW - Training
- Skiing
- Hiking

⚙️ SKILLS

- Javacript / Typescript
- Python
- HTML + CSS / SCSS
- Node.js
- R
- SQL
- MacOS
- Ubuntu & CentOS
- Git
- Django
- Flask
- Vue.js
- Docker
- Snakemake
- Nextflow

ROFICIENCIES

- Bioinformatics
- Data Analysis
- Data Visualization
- Backend Dev.
- Frontend Dev.
- DevOps

LANGUAGES

- German
- English

FIND ME @

- github.com/TrisKast
- linkedin.com/in/tristan-kast/
- tristankast.com