

Christoph Sachse

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<http://www.github.com/cssachse>

<http://cssachse.github.io>

Education

Pine Crest Preparatory School

University of California, Berkeley

B.S. Engineering Math & Statistics, B.A. Computer Science, May 2018 (projected)

GPA: 3.6 (In-major GPA Math: 3.9, Computer Science: 3.7)

Skills

- **Programming languages:**

Proficient: Python, Java, MATLAB, R, Javascript/HTML/CSS

Familiar: C, C++, PHP, MIPS assembly, Go, Haskell, Julia, Ruby

- **Tools & APIs:**

Git, OpenMP, Spark, L^AT_EX, Solidworks, Django, SQL, MongoDB, JQuery, Node.js.

Relevant experience

- **Work/Internships:**

- *Research intern* at CBI, Friedrich-Alexander University Erlangen: Performed calculation and experimentation for optimization of SILP-heterogenized chromium catalyst performance

- **Relevant coursework:**

Data structures

Probability

Machine Learning

Machine Structures

Statistics

Linear algebra (upper div.)

Discrete Mathematics

Stochastic processes

Statistical learning theory

Electronic Circuits

Signal Processing

(audited)

- **Personal Projects:**

[For more information, see personal site/github]

- Multiple dynamic webpage designs & backend for external organizations (Check out portfolio on website)
- *circ.edit*: HTML Canvas-based circuit drawing toolkit, supporting full array of LTI, modern, and logical components, as well as L^AT_EX, JSON, and png export options. Provides first known GUI for circuitikz package export.
- *gj-lang*: Building a python-based gj-C transcompiler [in progress], based on design plan for a monoid-free matrix-oriented functional programming language. (In progress)
- *ctx speedy*: Framework for constructing and optimizing image-free HTML canvas animations via caching of repeated states. (In progress)