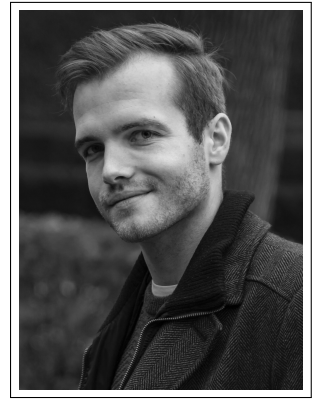


CURRICULUM VITÆ

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Github: phistep



Personal

Name: Philipp Stephan Date of Birth: 1995-04-13
Nationality: German Place of Birth: Munich

Work Experience

- since 2021 **Web Developer** at PRIMESESVES
 - Full stack development of MVC/REST web app using **Node**, **Vue** and MongoDB on CentOS
- 2018–2020 Bartender at the bar of the restaurant BEEF 800°
- 2018–2019 **Programmer** at SÜDDEUTSCHES KUNSTSTOFFZENTRUM, department of non-destructive testing
 - Construction of bus sniffing device for DSLR camera lens communication using ARDUINO and REDPITAYA
 - Creation of analysis software using C and **Python**, reverse engineering of the bus protocol
 - Authoring of **extensive documentation** of the created tooling and description of the protocol
- 2014–2018 Research assistant at the faculty of mathematics at the JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG
 - Design and **programming** of a faculty-wide file-based CMS with simple templating system
 - PHP for implementation, supports Markdown, mathematics rendering, and multi-language pages

Education

- 2016–2020 **M.Sc.** Physics, JULIUS-MAXIMILIANS-UNIVERSITÄT, Würzburg (preliminary GPA: 1.8)
Focus on theoretical and computational physics; thesis: “Analyzing Adaptive Multichannel Monte Carlo Integration and Event Generation” (grade pending)
- 2017–2018 **Exchange Semesters** Physics, UNIVERSITY OF BRITISH COLUMBIA, Vancouver, Canada
Honours thesis: “A Systematic Study of Positron/Muon Tracks in the J-PARC/E36 Segmented Scintillating Fibre Target”, (grade: A+ (90%))
- 2013–2016 **B.Sc.** Physics, JULIUS-MAXIMILIANS-UNIVERSITÄT, Würzburg (GPA: 1.8)
Thesis: “Beiträge von Vektor-Leptoquarks zu Kaon-Zerfällen” (grade: 1.3)
- 2005–2013 **Abitur**, DEUTSCHHAUS-GYMNASIUM, Würzburg (GPA: 1.5)

Programming Experience & Skills

- very good knowledge of **scientific computing using Python**: Master’s thesis implementing Monte-Carlo algorithms from scratch (**numpy**, **matplotlib**, **pandas**, **autograd**), including **unit testing**, coverage and **extensive documentation** with sphinx/RST/L^AT_EX, Mathematical computation using Mathematica
- good knowledge of **scientific programming using C++**: Master-level thesis implementing path-finding and pattern matching algorithm in C++ (CERN ROOT)
- Graphics programming and size coding: Created four award-winning 3D animated short movies (demo scene) rendering procedural graphics live on the GPU using OpenGL/GLSL, each smaller than 64 kB
- Collaboration using git**: 3D video editing tool (**C++**), team of 4, multiple years; ~15 kLoC, multiple branches, bug tracker
- Web development** and operation on **Linux** servers using **Python**, PHP, Ruby, Node, Vue, MySQL, MongoDB, SQLite
- >7 years using Arch **Linux** as main OS, very comfortable with the UNIX commandline: bash/zsh, GNU tools, Vim, **git**, svn

Languages, Scholarship, & Personal Interests

- Languages **German**: native **English**: fluent, reading/writing of long scientific literature, comfortable public speaking
- 2011–2019 Fellow of the Klaus Murman scholarship of STIFTUNG DER DEUTSCHEN WIRTSCHAFT
- Acting II plays at student drama club and independent theaters (production of two plays including organization, rights management, team planning, advertisement)