

Curriculum Vitae

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Education

- 10/2014–2/2017 *M.Sc., Computer Science*, Saarland University, Germany
Thesis: *Static Information Flow Control for CommonJS Modules*
Reviewers: Prof. Christian Hammer, Prof. Andreas Zeller
- 10/2009–3/2014 *B.Sc., Computer Science*, Saarland University, Germany
Thesis: *Using the GPU to solve Vehicle Routing Problems with Time Windows*
Reviewers: Dr. Klaus Fischer, Prof. Philipp Slusallek
- 9/1997–7/2009 *European Baccalaureate*, European School of Brussels II, Belgium

Experience

- 10/2022–4/2023 *Technical Advisor*, Free Software Foundation Europe
- Worked on the Upcycling Android campaign, organizing workshops and creating new workshop materials
 - Developed the frontend for TEDetective using Next.js
- 4/2017–10/2021 *Research Assistant*, University of Potsdam, Germany
- Worked as a research assistant at the chair of Prof. Christian Hammer on security analyses for JavaScript
 - Developed a static analysis that can handle JavaScript Promises in an efficient and sound manner
 - Served as a teaching assistant for Software Engineering I and II for 4 semesters
 - Served as a teaching assistant for Static Program Analysis for 1 semester
- 2/2021–4/2021 *Visiting Researcher*, KAIST, Daejeon, South Korea
- Research internship at the group of Prof. Sukyoung Ryu funded by the german academic exchange service (DAAD)
 - Developed a dynamic analysis that tests TypeScript declaration files for inconsistencies
- 9/2018–3/2019 *Research Intern*, Oracle Labs, Brisbane, Australia
- Worked as a research intern at Oracle Labs on test-case generation of Node.js web applications.
 - Developed a static analysis that generates REST specifications from the source code of an Express-based web application, which in turn can be used by a grammar-based Fuzzer to generate test cases and find security vulnerabilities in the app
 - Found seven 0-days in five large Node.js applications with the help of my work
- 7/2016–9/2016 *Research Assistant*, Saarland University, Germany
- Worked as a research assistant at the chair of Prof. Christian Hammer on the SimoBA project
 - Performing static information flow control for an Android hybrid app, written in both Java and JavaScript, to detect possible security vulnerabilities in the app
- 4/2015–10/2015 *Student Tutor*, Saarland University, Germany
- Served as a tutor for Secure Software Engineering for 1 semester

Publications

- Papers** François Gauthier, Behnaz Hassanshahi, Benjamin Selwyn-Smith, Trong Nhan Mai, Max Schlüter, and Micah Williams. Backrest: A model-based feedback-driven grey-box fuzzer for web applications. *arXiv preprint arXiv:2108.08455*, 2021.
- Gebrehiwet B Welearegai, Max Schlueter, and Christian Hammer. Static security evaluation of an industrial web application. In *Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing*, pages 1952–1961, 2019.

Technical Skills

- Languages** JavaScript/TypeScript, Java
- Software** Emacs, VIM, Git, Bash, NixOS

Languages

- German** native language
- English** full professional proficiency
- French** full professional proficiency
- Spanish** limited professional proficiency

- Interests** Climbing, tabletennis, books and board games