Tobias Pfandzelter

J +49 172 960 8059 **■** tobias@pfandzelter.com **♠** pfandzelter.com

Third-year Computer Science PhD candidate in the field of distributed and scalable software systems. Current research interests include edge and fog computing, particularly in the context of novel LEO satellite communication systems.

Education

Technische Universität Berlin

Sep. 2019 - present

Computer Science, Doctoral Degree

Berlin, Germany

Center for Cultural Studies on Science and Technology in China (CCST)

Mar. 2020

China Master Label

Berlin, Germany

Tongji University Shanghai

Sep. 2017

"Smart Shanghai" Summer School

Shanghai, China

Technische Universität Berlin

Oct. 2017 - Aug. 2019

Master of Science in Computer Science Distributed Systems and Networks Focus Grade 1.0 (equiv. 4.0 GPA)

Berlin, Germany

Technische Universität Berlin

Oct. 2014 - Mar. 2018

Bachelor of Science in Computer Science

Berlin, Germany

Select Peer-Reviewed Publications

- T. Pfandzelter and D. Bermbach, "Edge (of the Earth) Replication: Optimizing Content Delivery in Large LEO Satellite Communication Networks," in Proceedings of the 2021 IEEE/ACM 21st International Symposium on Cluster, Cloud and Internet Computing (CCGrid), Melbourne, Australia, May 2021.
- T. Pfandzelter, J. Hasenburg, and D. Bermbach, "Towards a Computing Platform for the LEO Edge," in *Proceedings of* EuroSys '21: Sixteenth European Conference on Computer Systems, Online, United Kingdom, Apr. 2021.
- T. Pfandzelter and D. Bermbach, "tinyFaaS: A Lightweight FaaS Platform for Edge Environments," in Proceedings of the 2020 IEEE International Conference on Fog Computing (ICFC), Sydney, Australia, Apr. 2020, pp. 17–24.

Experience

Mobile Cloud Computing Research Group,

Technische Universität Berlin & Einstein Center Digital Future

Sep. 2019 – present

Research Associate Berlin, Germany

- Responsible for the FogStore project, which aims to develop a data management middleware for the fog.
- Extensive development of open-source software prototypes.
- Authored and published several research papers in this context.
- Supervising student assistants, student projects, and student theses.

audibene GmbH $\mathbf{Mar.\ 2015-Aug.\ 2019}$

 $Systems\ Administrator$

Berlin, Germany

- Administered internal IT systems such as MS Office 365, Zoom, and MS Active Directory.
- Developed custom software for infrastructure monitoring.
- Procurement and management of IT equipment.
- Set up and administered enterprise networks, including virtual, wireless, and wired networking.

Coca-Cola Erfrischungsgetränke AG

Sep. 2014

IT Intern

Berlin, Germany

- Developed custom Outlook extensions for internal use.
- Worked with various groups of the IT department.

Technical Skills

Programming: Go (highly proficient), Python, JavaScript, HTML/CSS (proficient), Java, C# Technologies: Docker, Linux, Networking, Web & Internet, AWS, GCP, Microsoft Azure

Languages

German: Native English: C1 level Mandarin: A1 level