

Jonas Gröger

Resume

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Work experience

2015 – 2017 **Working student as software developer, noris network AG, Nürnberg.**

- Setup of a data streaming platform in a team. Responsible for reliably streaming data from various data sources to Apache Kafka as well as the development of several data stream metrics. These company metrics show relevant numbers, graphs, etc. in a realtime dashboard. Examples: Uptime, TCP/UDP ratio for each customer.
Technologies: Apache Flink, Apache Kafka, Docker, Scala, Python, SQL (PostgreSQL), Ansible, Bash, GoCD
- Development of an auditing function of a PHP legacy software (Poweradmin) including deployment to the customer. The patch is open source and was offered back upstream.⁰
Technologies: PHP, SQL (MySQL)
- Development of a Open Source MediaWiki Plugins¹ including Domain Specific Language to embed external data from HTTP APIs into wiki pages.
Technologies: MediaWiki, PHP
- Development of a JIRA plugin to efficiently prioritize a large number of user stories based on various criterias (time in backlog, points, dependencies, etc.).
Technologies: Java, Groovy
- Packaging of software for Python (PyPI), PHP (Packagist) and Debian.
Technologies: Bash, Docker, Python, Composer
- Setup of a team-wide Continuous Delivery Pipeline for internal software based on Docker.
Technologies: GoCD, Docker, Bash
- Implementation of Continuous Delivery for a mission critical MediaWiki deployment (Development, Staging, Production).
Technologies: GoCD, Docker, MediaWiki, PHP

2015 – today **Web designer, Physiotherapie Gröger, Remote.**

- Concept, design and development of a website for a small healthcare business.
Technologies: HTML, CSS, JavaScript, PHP
Live: <https://physiotherapie-groeger.de/>
- Support and customizations.

2014 (3 months) **Research Assistant (Software Developer), FAU Erlangen-Nürnberg, Nürnberg.**

- Feature development (authorization) in a Case Management Software.
Technologies: Google Google Web Toolkit, MySQL

2013 (3 months) **Research Assistant (Software Developer), FAU Erlangen-Nürnberg, Nürnberg.**

- Concept and development of a Android application that collects sensor data and shows it on a dashboard.
Technologies: Java

- 2012 – 2015 **System administrator**, *Information Systems Student Association*, Nürnberg.
 - Setup and administration of a Debian server including services: webserver, database, backup, monitoring.
Technologies: Apache HTTP Server, MySQL, Teamspeak, bup
Live: <http://fsi-winf.de/>
 - Handover to a successor including a complete and clear documentation.
- 2009 (2 months) **Internship (Software Developer)**, *Thüga MeteringService GmbH*, Naila.
 - Concept and development of a lunch ordering system as a desktop application.
Technologies: Delphi, MSSQL

Education

University

- 2014-2017 **M.Sc. Computer Science**, *FAU Erlangen-Nürnberg*, Grade: 1.9, 1.0 is best.
 - 2017 **Master thesis**, *FAU Erlangen-Nürnberg*, Grade: N.N.
Suitability of Generic Data-Stream Operators for implementing Continuous Queries in the Data-Center Domain.
- 2012–2014 **B.Sc. Information Systems**, *FAU Erlangen-Nürnberg*, Grade: 2.2, 1.0 is best.
 - 2014 **Bachelor thesis**, *FAU Erlangen-Nürnberg*, Grade: 1.0, 1.0 is best.
Realtime personalization of context adaptive systems based on sensor data – design and implementation of a presentation interface using WebSockets.

Projects

- KafkaClone Tooling for Apache Kafka. Copies messages from one Kafka topic to the other. Developed to increase developer productivity during testing and debugging.
Code: <https://github.com/JonasGroeger/kafka-clone-topic>
- acme.sh-inwx Automation of the DNS-01 validation of Domains using LetsEncrypt at a german domain provider (inwx.de).
Code: <https://github.com/JonasGroeger/acme.sh-inwx>
- scrariva Web scraper that extracts historical stock quote data from ariva.de. Written for the open source financial management software PortolioPerformance.
Code: <https://github.com/JonasGroeger/scrariva>
- Others More projects can be found on my GitHub account².

Technologies

Development

Languages	Python, Java, Scala, Bash, Reg-Exp	Web	HTML, CSS, Vanilla JavaScript, PHP
Frameworks	Flink, Spring, Django	Databases	SQL (My-, Postgre-), jOOQ
Formats	XML, MessagePack, JSON	Methodologies	Scrum, OOP, MVC, UML
Versioning	Git, SVN	CI/CD	GoCD, TravisCI
Configuration management	Ansible	Security	PGP/GnuPG, OpenSSH, TLS
Virtualisation	Docker, Vagrant		
Operating systems	Debian, Ubuntu, Windows	Wikis	MediaWiki
	Office		
Standard software	Office, Photoshop	\LaTeX	$\LaTeX 2_{\epsilon}$, $X_{\text{g}}\LaTeX$

Languages

German mother tongue
English fluent
Chinese HSK1
French basic knowledge

Conferences

- Flink Forward Developer Conference 2016
- Senacor Case Challenge 2014
- Chaos Communication Congress 2012, 2013, 2014

Other

Driving license Class B (German)

Hobbies / Other

Sport Paragliding, swimming
Contributions to pr0wl @ OpenStreetMap³
OpenStreetMap

⁰<https://github.com/poweradmin/poweradmin/pull/240> und <https://github.com/poweradmin/poweradmin/pull/241>

¹<https://github.com/noris-network/Jsoner>

²<https://github.com/JonasGroeger>

³<https://www.openstreetmap.org/user/pr0wl>

Examinations Office Erlangen / Nürnberg

Mr.
 Jonas Gröger
 Kasseler Straße 63
 90491 Nürnberg

Overview for Examinations Office			
No.	Status	ECTS	Grade
2000	PV	90.0	1.90

**List of examinations taken by Mr. Jonas Gröger
 born on 2 June 1989 in Naila**

Student registration number:

21444777

17 October 2017

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Master of Science: Computer Science

No.	Examination	Semester**	Date	Grade	Status	ECTS	Note	Attempt
2000	Master's examination			1.90		90.0		
Only ECTS credits of passed modules are counted. Not yet completely passed modules are listed in this document together with passed exams, but will not be considered in counting this total amount of ECTS credits.								
1800	Minor subject		2016-04-04	2.2	passed	15.0		
1803	Minor subject: Business Administration		2016-04-04	2.2	passed	15.0		
3710	Foundations of international management I		2015-01-07	2.2	passed	5.0		
37101	Examination: Foundations of international management I	Winter 14/15	2014-12-12	2.4	passed	4.0		1
37102	Seminar: Foundations of international management I	Winter 14/15	2015-01-07	1.5	passed	1.0		1
5620	E-Business strategy and networking		2016-01-31	2.1	passed	5.0		
56201	E-Business strategy and networking	Winter 15/16	2016-01-21	2.0	passed	2.5		1
56202	E-Business strategy and networking	Winter 15/16	2016-01-31	2.3	passed	2.5		1
7200	Interdisciplinary business seminar		2016-04-04	2.3	passed	5.0		
72001	Interdisciplinary business seminar	Winter 15/16	2016-04-04	2.3	passed	5.0		1
1994	Project		2015-08-10	1.0	passed	10.0		
701646	The AMOS Project (VL + UE 10, ECTS)(*)	Summer 15	2015-08-10	1.0	passed	10.0		1
3818	Seminar		2016-07-09	1.7	passed	5.0		

17 October 2017 - Jonas Gröger, Student ID: 21444777

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No.	Examination	Semester**	Date	Grade	Status	ECTS	Note	Attempt
909276	Key Concepts of Distributed Event-based Systems	Summer 16	2016-07-09	1.7	passed	5.0		1
1700 Compulsory electives			2017-04-18	2.1	passed	60.0		
1710	Säule der theoretisch orientierten Vertiefungsrichtungen(*)		2015-03-23	2.3	passed	7.5		
3813	Focus Module: Systems Simulation		2015-03-23	2.3	passed	7.5		
465562	Advanced programming techniques (lecture and exercises)	Winter 14/15	2015-03-23	2.3	passed	7.5		1
1720	Säule der softwareorientierten Vertiefungsrichtungen(*)		2016-02-17	1.6	passed	20.0		
3801	Focus Module: Database Systems		2016-02-17	2.7	passed	5.0		
558373	eBusiness Technologies und Multimedia-Datenbanken(*)	Winter 15/16	2016-02-17	2.7	passed	5.0		1
3812	Focus Module: Software Engineering		2016-02-05	1.3	passed	15.0		
214015	Advanced design and programming	Winter 14/15	2015-03-04	1.7	passed	5.0		1
530025	Nailing your thesis	Winter 14/15	2015-02-20	1.3	passed	5.0		1
665145	Lecture - Advanced Methods of Software Engineering	Winter 15/16	2016-02-05	1.0	passed	5.0		1
1730	Säule der systemorientierten Vertiefungsrichtungen(*)		2016-07-30	2.5	passed	20.0		
3815	Focus Module: Distributed Systems and Operating Systems		2015-07-28	2.1	passed	15.0		
722831	Middleware - Cloud Computing (Vorlesung mit erweiterten Übungen)(*)	Winter 14/15	2015-03-04	3.0	passed	7.5		1
743260	Distributed Systems (Lecture with extended Exercises)	Summer 15	2015-07-28	1.3	passed	7.5		1
3816	Focus Module: IT Security		2016-07-30	3.7	passed	5.0		
326311	Applied IT security	Winter 15/16	2016-02-20	5.0	failed	0.0		1
326311	Applied IT security	Summer 16	2016-07-30	3.7	passed	5.0		2
1740	Säule der anwendungsorientierten Vertiefungsrichtungen(*)		2017-04-18	2.3	passed	12.5		
3804	Focus Module: Computer Graphics		2017-04-18	2.3	passed	12.5		

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299892	Information visualization	Winter 14/15	2015-04-10	1.0	passed	5.0		1
321743	Computergraphik (Vorlesung mit Übung und Praktikum)(*)	Winter 15/16	2016-04-05	5.0	failed	0.0	VO	1
321743	Computergraphik (Vorlesung mit Übung und Praktikum)(*)	Summer 16	2016-10-13	*	registered for exam	0.0	VM	2
321743	Computergraphik (Vorlesung mit Übung und Praktikum)(*)	Winter 16/17	2017-04-18	3.3	passed	7.5		2

To date, the student has accumulated 90.0 of the 120 ECTS credits required.