

Martin J. Rogalla

+1 (720) 397-7880 ✉ martin@martinrogalla.com in linkedin.com/in/rogalla

Objective

Software Engineer

Education

DELFT UNIVERSITY OF TECHNOLOGY

MSc. Computer Science - *Software Engineering* - GPA: 4.0

- Thesis: Automated Software Testing of JavaScript Web Applications.

Delft, The Netherlands

Sep 2014 - May 2017

DELFT UNIVERSITY OF TECHNOLOGY

BSc. Computer Science - *Embedded Software* - GPA: 3.4

- Specialization in Embedded Software, Digital Systems and Operating Systems.

Delft, The Netherlands

Sep 2011 - Sep 2014

Work Experience

FUJITSU LABORATORIES OF AMERICA INC. - *Research Intern*

Feb 2016 - Nov 2016

- Filed a patent and developed an Automated Testing Framework that uses a combination of symbolic execution and model-learning to generate intelligent event-sequences.
- Created a benchmark set consisting of 14 open-source systems and provided corresponding execution infrastructure that can be used for evaluating automated testing techniques.
- Provided empirical evidence indicating that model-learning is a successful technique for event-sequence construction in the automated testing of JavaScript web applications.
- Developed a non-modifying coverage tool for JavaScript Web Applications.

MAGNET.ME - *Software Engineer*

Mar 2015 - Jan 2016

- Created the iOS application for Magnet.me that is used by more than 2,500 active users.
- Developed a Fully Automated Distributed Build Chain for iOS Applications.
- Converted the use of Xibs to programmatic constraints. Improving versioning, build time and overview of layout modifications.

DELFT UNIVERSITY OF TECHNOLOGY - *Undergraduate Teaching Assistant*

Mar 2014 - Sep 2015

- Supported and graded students in the 'Software Quality and Testing' course by Prof. Arie van Deursen.

TRANSIP - *Software Engineering Intern*

Jul 2014 - Sep 2014

- Restructured the periodic DNS modification propagation to a push-based structure, greatly decreasing the latency before modifications are reflected in the nameservers.

Skills

- Languages: C/C++, Java, Swift, JavaScript, Python, BASH
- Web Technologies: Kubernetes, Docker, AWS(S3, EC2), PostgreSQL, PHP, HTML, CSS
- Misc Technologies: Jenkins, Git, Subversion, Linux, MacOS, iOS

Open-source Contributions

- Chromium (*Mar 2017 - now*): Fixed numerous bugs and made modifications to the Chromium browser such that it would conform to newly specified W3C standards.
- Jekyll (*Feb 2015 - March 2015*): Restructured and refactored code, fixed bugs, provided a software architecture analysis and improved documentation.
- Magnet Evans (*Dec 2015 - Jan 2016*): Developed and deployed a fully automated distributed build chain for iOS Applications.

Languages

Native Proficiency

Dutch, English

Professional Proficiency

German

Basic Proficiency

French