

Simon Stückemann

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Education

Imperial College London (2011 - Present)

- MEng Computing (85.5% Overall for Year 1, 2 & 3)
- Modules include Advanced Databases, Distributed Algorithms, Machine Learning, Business for Computing Engineers, and Human-Centred Design

Cäcilien-schule Wilhelmshaven (2009 - 2011)

- Achieved 863 out of 900 possible points in my *German Abitur* (1.0)
- 15 (highest grade available) in Mathematics, Physics, English & German in examinations

Technical Skills

- Programming languages:
 - preferred: Scala, Java, Ruby
 - other: C, Objective-C, C++, Haskell, PHP, JavaScript, SQL
- Version control: Git
- Agile software development
- Team leadership
- Always eager to learn about new environments, languages, and methodologies

Professional Experience

Apple, Intern (April 2014 - September 2014)

- Contributed to a large-scale web application on both the front-end and the back-end
- Used frameworks such as the Scala Play Framework for reactive web development, Hadoop MapReduce, and Backbone for client-side JavaScript development

Imperial College London, Undergraduate Teaching Assistant (October 2013 - April 2014)

- Taught Haskell and Java to small group of first-year students
- Exposed them to good programming practices through tutorial sessions and marking their coursework

Apple, Intern (July 2013 - September 2013)

- Worked on an internal Mac OS X app
- Implemented custom Cocoa UI elements
- Used frameworks such SearchKit and CoreData

Amazon.com, Software Development Engineer Intern (July 2012 - September 2012)

- Created an internal fork of Gerrit Code Review and extended it with internal SSO system and SSL support
- Designed and implemented several Android apps and services
- Wrote low-level code for security-related bootloader functions in Amazon's Android fork, using SSL libraries

Selected Projects

Unified Timetable Generator, Department of Computing, Imperial College London

- <https://timetable.doc.ic.ac.uk>
- Led a team of 6 to develop award-winning timetable generator for students to generate their own personalised timetable
- Responsible for the overall effort, co-ordinated team-members and communicated with stakeholders
- Employed agile software development methodology
- Designed and developed front-end in a team of three
- Technologies: Ruby on Rails, jQuery, HTML, SCSS

Design and development of a website for the German artist Ulrike Koch

- <http://www.ulriekoch-art.de>
- Development of a CMS with support for multiple languages, using the Zend Framework
- Technologies: PHP, HTML, CSS

Automated Music Composition

- Worked in a team of 3 students
- Used techniques including tonal-networks, cellular automata, and Markov chains
- Second place at the Lower Saxony finals of the German young scientists' competition "Jugend forscht" 2012
- Prize for best scientific paper on the project (2012)
- Prize from the Ministry of Education in the "Jugend forscht" competition (2011)
- Write-up: <http://simonstuck.com/music/2013/08/05/duudel---ai-music-composition/>
- Technologies: C++

Awards / Recognition

- G-Research Prize for Academic Excellence in year 2 & 3
- Engineering Dean's list of top 10% academic results in year 1 & 2
- David Howarth Group Project Prize - Awarded for excellence in third-year group project (Unified Timetable Generator)
- Olav Beckmann Project Prize - Awarded for best second-year WebApps group project
- Topics in Computing Presentation Prize - Awarded for the best Presentation of a Research topic in year 1
- Honorary Mention for Near Perfect Code in first-year "Assembly Language Emulator and Assembler" project
- Computing Entrance Scholarship award for one of the 10 best applications to the department

Language Skills

- English (completely fluent)
- German (native)
- French (elementary proficiency)

References

- Available on request