Joris Suppers

Software Engineer

Joris Suppers
Germany

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About

I am an enthusiastic software developer with a good work ethic and am eager to dedicate my time, skills, and knowledge into a job opportunity within and outside of my expertise. My main programming languages are Java, Javascript, HTML, and CSS, however, I am always eager and excited to learn new languages.

Experience

University of Augsburg / Internship

3 MONTHS in 2016, AUGSBURG, GERMANY

This position involved working in the Human Centered Multimedia Lab and attending, as well as presenting during group meetings.

University of Waikato / Doctoral Assistant

12 MONTHS in 2015, HAMILTON, NEW ZEALAND

This position involved assisting senior lecturers with course related activities in the papers:

- Design and Analysis of Algorithms: This paper introduces various algorithms for solving a diverse range of problems using computers. This includes topics such as sorting, compression, and searching algorithms.
- Computer Communications: This paper provides an overview of the technologies and protocols involved in computer communications. This includes topics such as HTTP and TCP/IP.

The activities that I was responsible for in these papers included:

- Preparing and providing tutorial sessions
- Responding to course related questions
- Debugging and explaining the causes of software bugs
- Marking assessment activities
- Coordinating sessional assistants

University of Waikato / Sessional Assistant

6 MONTHS in 2014, HAMILTON, NEW ZEALAND

This involved attending laboratory sessions and helping students with any course related work. Another role was marking assignments, tests and exams.

Education

Udemy / Spring Framework 5: Beginner to Guru

2 MONTHS in 2018, ONLINE

This is an online course of approximately 60 hours of content which introduces Spring framework topics such as: Spring Boot, Web, MVC, JPA, RESTFul Web Services , MySQL, MongoDB, Docker, and Project Lombok.

University of Waikato / Doctor of Philosophy, Computer Science

2013 - 2018, HAMILTON, NEW ZEALAND

I completed a PhD with the thesis title: "*Impacts of new technologies on household electricity demand: From an individual household, a community, and a national perspective*".

This research involved testing various smart home and IoT technologies and the creation of a range of projects which include:

- Energy Monitor: A website displaying real time energy readings of a household, created using Python, HTML, PHP, CSS, and JavaScript.
- Control My Lights: A website which allows remote control and monitoring of a smart light bulb. This included using a Philips Hue set, a IP camera, a Raspberry Pi and using Python, HTML, PHP, CSS, and JavaScript.
- CasualLight: A small chrome web store app which allows users to control a Limitless LED smart light bulb, using speech recognition. It includes Google speech to text and was created using JavaScript, CSS, and HTML.
- NZSPOT: A website which allows users to simulate the output of a solar panel system depending on a selected location and a defined configuration. This website was created using Python, HTML, PHP, CSS, and JavaScript.
- HEUS: A web tool which allows the simulation of a solar panel system, home energy storage system, and/or an electric vehicle on a demand profile. This tool was created using HTML, PHP, CSS, and JavaScript.

University of Waikato / Bachelor of Computing and Mathematical Sciences, Major in Computer Science, awarded with First Class Honours

2009 - 2012, HAMILTON, NEW ZEALAND

A three year degree in computer science specialising in software development with an additional honours year, where I was awarded First Class Honours. This degree covered various topics in the computer science field and was mostly taught in Java. My honours year involved the creation of the following project:

- CasualShare: An application turning a computer into an airplay compatible receiver, enabling it to receive images from an IOS device via airplay. These images could then be viewed on a web browser. This was written in Node.js and required reverse engineering the HTTP AppleTV protocol.

PUBLICATIONS

Interactive solar panel simulation tool - From Global Horizontal Irradiance to PV output
SEPTEMBER 14, 2015, Fostering Smart Energy Applications workshop at INTERACT FSEA

Developing useful Visualizations of Domestic Energy Usage
AUGUST 5, 2014, The 7th International Symposium on Visual Information Communication and Interaction (VINCI)

Why Aren't We All Living in Smart Homes?
May 27, 2014, Proceedings of the AVI 2014 Workshop on Fostering Smart Energy Applications through Advanced Visual Interfaces

Casual Mobile Screen Sharing
JANUARY 20, 2014, Proceedings of the Fifteenth Australasian User Interface Conference (AUIC)

Awards

Doctoral Scholarship University of Waikato
2013 – 2016

Golden Key International Honour Society
2015

Best Student Paper - Presented at the 7th International Symposium on VINCI
2014

Runner-up Best Project Award - Department of Computer Science, University of Waikato
2012

Languages

English – Native Language

German – Speak, read, and write at a B1 level of CEFR

Dutch - Basic knowledge

"…. Joris has shown himself to be intelligent, independent-thinking, highly motivated, efficient and effective as a researcher. Papers he has written and presented during the course of his research show he is a competent and extremely effective communicator. I have no hesitation in recommending him for any position that requires the sorts of skills I have described."

Professor Mark Apperley, University of Waikato (PhD Supervisor)