ANNA SCHOLTZ

Computer Science Graduate Student at the University of British Columbia

WORK EXPERIENCE

Since September 2017 // Canada

Graduate Teaching Assistant @ University of British Columbia

Project Organization | Software Planning | SQL | Databases | JavaScript | Java

- Software Engineering Project: Supervise groups implementing a contractor management system and expense claim system in cooperation with Coast Capital
- Databases: Supported instructor during lectures, held tutorials, supervised project groups that had to implement a database system, held office hours and graded exams

August 2015 - July 2017 // Germany

Software Engineering Student Employee @ Citrix (later LogMeIn)

Scala | Akka | Spray | JavaScript | AngularJS | Redshift | S3

- Development of software tools written in Scala for audio problem analysis of GoToMeeting
- Implemented tools for pattern detection in log data and visualization of log files
- Supported implementation of cloud-based data analysis software

May 2014 - December 2015 // Germany

Student Assistant @ Technische Universität Chemnitz

C# | JavaScript | ASP.NET | Knockout.js | WebID | RDF | Scientific Writing

- Supported researchers at the chair of "Distributed and Self-organizing Systems"
- Development of approaches based on WebID to enhance the information security in personal data management by web applications
- Implementation of a code annotation tool for migration of legacy software

SELECTED PROJECTS

Since June 2018 // Canada

Detecting User Workflows (Master Thesis)

Scala | Swift | Lab Study

- Detection of recurring workflows while working at a computer
- Exploration and customization of different algorithms suitable for detecting temporal patterns in large amounts of data
- Development of tools to support professionals in their repeating work patterns

April 2018 - August 2018 // Canada

Google Summer of Code 2018 @ Xi Editor Project

Rust | Swift | Search

- Extended Xi Editor to provide advanced search functionality, search using regular expressions and replacements of matches
- Integration of an advanced interface for find and replace into the xi-mac frontend
- Development of a new interface allowing search using multiple queries

September 2017 - December 2017 // Canada

Sensing Interruptions using Psycho-physiological Sensors

Python | Machine Learning | EEG | Lab Study

- Explored whether interruptions cause measurable changes using psycho-physiological sensors by analyzing brain activity and head position
- Execution of a controlled lab study with participants working on defined tasks and interrupting them while recording their EEG data
- Machine learning classifier for detecting interruptions in recorded EEG data

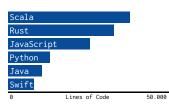
February 2016 - June 2016 // Germany

Macro-based Serialization to JSON using Scala (Bachelor Thesis)

Scala | Scala Macros | ConTeXt

- High-performance approach to serialize class instances and values to JSON
- Scala macros for generating serialization logic at compile time based on the class structure to
- Proof-of-concept implementation that outperformed existing state-of-the-art libraries

SKILLS



• HTML, CSS, Less

German

English

Dutch

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LaTeX, ConTeXt

Akka, Spray

WebID, RDF

- MySQL, PostgreSQL

• Redshift, S3

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EDUCATION

September 2017 - December 2019 // Canada

Masters of Computer Science

University of British Columbia

March 2017 - June 2017 // South Korea

Exchange Semester

Sungkyunkwan University

October 2016 - September 2017 // Germany

Masters of Computer Science

Technische Universität Chemnitz

 Degree not finished due to transfer to University of British Columbia

October 2013 - September 2016 // Germany

Bachelors of Applied Computer Science

Technische Universität Chemnitz

PUBLICATIONS

December 2015 // Belgium

Systematic Composition of Web-based Applications with Focus on Security @ iiWAS2015

June 2015 // Netherlands

Scope-aware Delegations in Distributed Social Networks @ ICWE 2015

AWARDS

October 2016 - September 2017 // Germany

Germany Scholarship

Reward for excellent educational achievements and social commitment

November 2015 // Netherlands

Black Hat Student Scholarship

VOLUNTEERING

Since April 2018 // Canada

Active Contributor to Xi Editor

Rust | Swift | Open Source

Since April 2018 // Canada

Vice President Finance

- Managing the yearly budget of the Computer Science Graduate Student Association
- Supporting president in organizing social events and the orientation week

January 2015 - July 2015 // Germany

ISC Student Cluster Competition 2015

Python | High Performance Computing | Optimization

- 2nd place in category "Highest Linpack"
- Responsible for preparing and optimizing the application PyFR and the HPL benchmark

December 2013 - August 2017 // Germany

Chemnitzer StudentenNetz

Python | JavaScript | Django | Networks

Student initiative to maintain the internet connection in the dormitories on the TU Chemnitz campus

- Development of user administration software
- Maintenance of network equipment
- Second-level user support