ANNA SCHOLTZ

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📍 Vancouver, Canada

WORK EXPERIENCE

Data Engineer @ Mozilla

Since January 2020 // Vancouver, Canada

▷ Worked on the Firefox telemetry data pipeline processing thousands of events per minute
▷ Implemented tools for analyzing collected data and creating datasets
▷ Designed and implemented an experiment analysis platform that calculates metrics and statistics of dozens of experiments daily

BigQuery | Python | Java | Apache Airflow | Apache Beam | Data Pipeline | Kubernetes | GCP

Firefox Data Engineering Intern @ Mozilla

June 2019 - August 2019 // Mountain View, USA

▷ Developed a framework that allows Python code execution in BigQuery by taking advantage of existing WebAssembly support
▷ Created a metric emitter plugin for Apache Druid to enable monitoring in Stackdriver
▷ Integrated Google Pub/Sub support into a stream processing pipeline used for real-time analysis experiment enrollment data

BigQuery | Python | WebAssembly | Apache Druid | Java | Data Pipeline | Kubernetes | GCP

Graduate Teaching Assistant @ University of British Columbia

September 2017 - Dezember 2019 // Vancouver, Canada

▷ Supervised groups implementing software systems for companies such as Coast Capital, HSBC and Associated Engineering and held tutorials and office hours for different courses

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

Software Engineer (Part-time) @ Citrix (later LogMeIn)

August 2015 - July 2017 // Dresden, Germany

▷ Developed a platform for analyzing audio problems in GoToMeeting which was used by engineers and customer care on a daily basis
▷ Implemented tools for detecting and visualizing error patterns in log data used to trace down audio and connection issues in GoToMeeting

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

SELECTED PROJECTS

Context Switch Support with Conceptual Groups (Master Thesis)

June 2018 - November 2019 // Vancouver, Canada

▷ Development of an approach that automatically detects groups of applications and resources that developers use together while working on different projects
▷ Creation of tools for decluttering workspaces and navigating between different projects

Scala | Swift | Lab Study | Pattern Detection

Google Summer of Code 2018 @ Xi Editor Project

April 2018 - August 2018 // Vancouver, Canada

▷ Extended Xi Editor to provide advanced search and replace functionality
▷ Integration into the xi-mac frontend and development of a novel interface allowing search using multiple queries

Rust | Swift | Search

Sensing Interruptions Using Psycho-physiological Sensors

September 2017 - December 2017 // Vancouver, Canada

▷ Analyzed whether work interruptions cause measurable biophysical 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

Python | Machine Learning | EEG | Lab Study

EDUCATION

Masters of Computer Science
University of British Columbia

September 2017 - November 2019 // Canada

Exchange Semester
Sungkyunkwan University

March 2017 - June 2017 // South Korea

Bachelors of Applied Computer Science
Technische Universität Chemnitz

October 2013 - September 2016 // Germany

SKILLS

Programming Languages
Python, Scala, Rust, Java, Swift

Data Processing
BigQuery, Apache Beam, Apache Airflow, Apache Druid, RDF, PostgreSQL

Tools and Platforms
GCP, AWS, Docker, Git, Kubernetes

Web Technologies
HTML, CSS, Less, RESTful Webservices, WebID

VOLUNTEERING

Since April 2018 // Canada

Active Open Source Contributor
Actively contributing to different open-source projects, such as Xi Editor and Druid

Rust | Swift | Open Source

Vice President Finance

April 2018 - April 2019 // Canada

Managing the yearly budget of the Computer Science Graduate Student Association

ISC Student Cluster Competition

January 2015 - July 2015 // Germany

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

Python | High Performance Computing

AWARDS

Germany Scholarship
October 2016 - September 2017 // Germany

Reward for excellent educational achievements and social commitment

INTERESTS

3D Printing, VR Game Development, Hiking, Ultimate Frisbee, Spikeball, Tennis, D&D