

# Natnael W. Getahun

SOFTWARE ENGINEER · FULL STACK DEVELOPER

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## Education

### Jacobs University Bremen

Bremen, Germany

B.Sc. IN COMPUTER SCIENCE

Feb. 2016 - PRESENT

- Specializing in Robotics, Machine Learning, Visualization, Computer Vision, Automation
- Expected to graduate in June 2018

### Bright Future School

Addis Ababa, Ethiopia

HIGH SCHOOL DIPLOMA

Sep. 2011 - Jun. 2015

- Completed secondary education. Emphasized on Computer Science, Mathematics, Physics, Chemistry, Biology and Technical Drawing
- Graduated in the top 5% of my class

## Skills

**Programming** Proficient: Python, C, C++, JavaScript, Java, HTML Experienced: CSS, SCSS, SQL, Assembler  
**Tools** Proficient: Git, Flask, node.js, RESTful Experienced: rethinkDB, MongoDB, React, Angular.js, Scrum  
**Language** Native: English, Amharic Intermediate: German

## Practical Experience

### Student Developer

Bremen, Germany

HOKOCLOUD

Jan. 2018 - PRESENT

- Responsible for designing and developing RESTful endpoints
- Developed the web interface and client portal.

### Teaching assistant

Bremen, Germany

JACOBS UNIVERSITY BREMEN

Sep. 2017 - May. 2018

- TA for CAPL (Computer Architecture and Programming Languages) and Software Engineering course
- CAPL covers computer architecture topics like flip-flops, logic gates and programming languages topics like assembler(MIPS), and compiler design
- Held bi-weekly tutorial and responsible for grading assignments and exams.
- Held code reviews for 25+ students

### Undergraduate Student Assistant

Bremen, Germany

RASDAMAN GMBH

Sep. 2016 - Feb. 2017

- Designed a web interface to showcase OGC Web Service (OWS) protocol for the Petascope component
- Designed a web platform for rasql (Rasdaman Query Language) tests

### Lab Assistant

Bremen, Germany

JACOBS UNIVERSITY BREMEN

Sep. 2016 - May 2017

- Lab assistant at Computational Laboratory for Analysis, Modeling and Visualization (CLAMV)
- Provide technical assistance for the Linux Machine users
- Performed daily check-ups to 30 lab machines

## Research and Project Experience

### Time-scaling effects on the forecasting of financial time-series

Bremen, Germany

GUIDED RESEARCH

Sep. 2017 - PRESENT

- conducting research into the effects of time-resolution of bitcoin time series in financial forecasting using Echo State Networks (ESN)
- Implemented Echo State Networks in python.
- performed data acquisition and preprocessing, model training and writing a technical report

## **jacobsHack!**

MAIN-ORGANIZER

*Bremen, Germany*

*Jul. 2016 - PRESENT*

- Organizer of **jacobsHack!**, a student-led hackathon attended by more than 160 students from over 50 countries.
- Handle logistic, financial and organizational issues.
- Developed the main website of the hackathon and application portal
- Developed Facebook messenger bot for the event.

## **CS Club, Jacobs University**

MEMBER AND ACTIVE CONTRIBUTOR

*Bremen, Germany*

*Feb. 2017 - PRESENT*

- Organized the Shack (CS lounge) with different gadgets and tools for students to be creative and learn new things
- Held talks on Python and various other topics for members

# **Extracurricular Activity**

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## **Basketball Club**

ACTIVE MEMBER

*Bremen, Germany*

*Mar. 2016 - PRESENT*

- Member of the university basketball club. Played 'center' position.

## **Rotaract Club**

MEMBER AND ACTIVE CONTRIBUTOR

*Bremen, Germany*

*Feb. 2016 - Feb. 2017*

- Rotaract (which stands for Rotary in Action) is a Rotary-sponsored service club. The projects currently running are:
- Blood drive: In association with Deutsches Rotes Kreuz, we have arranged for students to donate blood. Waffle Wednesdays: an event on campus held every 2 weeks. The idea is to get donations from students.