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Education

University College London (UCL)

MSc in Software Systems Engineering

• Awarded "Vreedefonds" merit scholarship.

• Relevant Courses: Distributed Systems & Security | Information Retrieval & Data Mining | Requirements Engineering & Software Architecture

University of Amsterdam (UVA)

BSc (WITH HONORS & CUM LAUDE) IN COMPUTER SCIENCE

• Among 3 (out of 60) students to graduate with both Honors & Cum Laude GPA.

- Thesis with ESI (TNO): Towards the Scalability of Detecting & Correcting Incompatible Service Interfaces. (Grade: 8.5/10)
- Relevant Courses: Algorithms & Datastructures | Operating Systems | Networking | Concurrency & Parallel Programming | Statistics | Compiler-
- · Honors Courses: Computational Logic | Search Engines | Computer Security | Innovation & Tech Management

Nanyang Technological University (NTU)

Sinaapore

EXCHANGE PROGRAM

August 2019 - January 2020

London, The United Kingdom

Amsterdam, The Netherlands

September 2017 - July 2020

September 2020 - Exp. September 2021

• Exchange semester through the University of Amsterdam

Experience

Junior Research Assistant - Embedded Systems Innovation (ESI)

Amsterdam, The Netherlands

NETHERLANDS ORGANISATION FOR APPLIED SCIENTIFIC RESEARCH (TNO)

June 2020 - October 2020

- Focused on researched-based development of a tool for the synthetic generation/modification of interfaces in a domain-specific language.
- Supported the evolution of service-oriented software architectures by performing a scalability analysis of the "Dynamics" research project.
- Independently carried out software-oriented research projected under supervision.
- · Reading: diallom.com/thesis.pdf

Teaching Assistant - Computer Science

Amsterdam, The Netherlands

September 2018 - June 2019

University of Amsterdam

• TA for courses: Datastructures | Operating Systems | Programming Languages | Computer Architecture

• Clarified lecture contents to students and assisted with the practicals.

• Graded assignments and provided feedback on student's performance.

Software Developer Diemen, The Netherlands

ASPER INTERNATIONAL TRADING

August 2017 - December 2018

- · Revitalized the company's internal structure by developing and maintaining software solutions to automatize tasks
- Digitized over ten years of papers shipping files using OCR. Saved the company a substantial amount of time looking through paper records.
- Developed an internal system to automate the registration of vehicles for export on RDW (Department of Road Transport).

Skills

Spoken Languages Dutch and English (Native), French (Conversational), German (Basic) **Technologies** Python, Java, JavaScript/TypeScript, C, Django, Flask, Angular, Spring Boot

Other Git, Agile, Scrum, SQL, NoSQL (MongoDB), Linux, Bash

Projects

RESEARCH PROJECT

Synthetic Petri Net Generator - github.com/Diallo/Synthetic-Interface-Generator

• Result of Bachelor's thesis: Methodology for synthetically generating Petri nets

Tool incorporates methodology as proof-of-concept

Paper being submitted to workshop PNSE'21 (Petri nets and Software Engineering)

Global University Listing (GLUNLI)

PERSONAL PROJECT

June 2020 - PRESENT

PRESENT

- GLUNLI is a web-application aimed at bringing together students with the aspirations to pursue international program. GLUNLI provides a comprehensive list of thousands of universities all over the world. The list of universities contains useful information and provides the opportunity to provide reviews
- · Techs: Angular (Typescript), Spring Boot (Kotlin/Java), Python, HTML, CSS

Soundhead - highmood.diallom.com

Personal/University Project January 2020 - July 2020

• SoundHead is an application that is a continuation of a university project. It provides analysis of user's Spotify song history. Key features are determining a user's mood based upon their song history. Furthermore using Spotify's API and basic machine learning, a recommender system attempts to provide user specific mood-based playlists, a feature not offered by Spotify. Additional features implements lacking social features for Spotify such as synchronized music listening between users, and a party mode where users of SoundHead are able to control the playback of other users.

- Project was originally conducted as part of the course "Software Engieering" at the University of Amsterdam (2019) in a group of ten.
- Techs: Python, Django, SQL, Redis, Celery, HTML, CSS, JavaScript

Eve Online - Launcher & Character Manager

Personal Project April 2017 - May 2017

- The revised launcher for the MMORGP Eve Online provided an alternative to the game's buggy launcher and provided additional features such as easier multi-account management.
- · Techs: Python, Flask + Pywebview, HTML, CSS, JavaScript, Selenium

Extracurricular Activities

Global Exchange Ambassador

Amsterdam, The Netherlands

January 2020 - July 2020

University of Amsterdam

- Part of the diversity team: promoting diversity within the exchange program.
- Conduct interviews with exchange students and provide feedback as to improve the exchange program.
- · Work in a culturally diverse team with the goal of combining various differing view points of the exchange program.

Member of Education Committee

Amsterdam, The Netherlands

November 2018 - January 2020

EDUCATION COMMITTEE - SVIA (STUDY ASSOCIATION VIA)

- · Organized informative lectures for students.
- Planned the association's annual international trip to FOSDEM (Software developer conference)
- Organized workshops with the intent of broadening student's knowledge within the field of information sciences.
- Organized the annual "meet the study" event for parents of information sciences students.