



THY KHUU

Master's Student | Software Engineering | Web Development

With some years of engineering experience, including the last 2+ years in software development focused on building scalable, performance, and accessibility web applications. I am eager to learn new technologies and hungry for a new adventure. I am seeking an opportunity to contribute to impactful software solutions while advancing my career in software development.



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Berlin, Germany



<https://thy-khuu-portfolio.vercel.app/>



RELEVANT WORK EXPERIENCE (2+ YEARS)

Yacoub Automation GmbH

Berlin, Germany

04/2024 - 03/2025

Working Student - Web Software Engineer

Skills: React.js, TypeScript, Material-UI, Redux, Flask, OpenAPI Spec, Swagger, Jira, Docker, Kubernetes, Git/Github, Documentation

- Extended an existing scalable Web UI system to support a new product backend.
- Built new components and logic to meet unique backend needs while maintaining architectural consistency.
- Integrated a newly developed RESTful API of a virtual product service into the Web UI for seamless data visualization and interaction.
- Translated customer and product requirements into practical UI solutions within the constraints of the existing web architecture.
- Worked closely with UX designer and backend developers in an agile development environment to ensure smooth and iterative delivery.

Centria University of Applied Sciences

Kokkola, Finland

06/2021 - 06/2022

Working Student - Web Technical Assistant

Skills: Arcgis Online, Map Viewer Online, Web Map Design, Documentation

- Providing technical assistance in creating a StoryMap that displays the musical communities in Northern Finland, Norway and Sweden, including Sápmi areas.



LANGUAGE

English



TOP SKILLS

Frontend

JavaScript React.js TypeScript
Redux GraphQL MaterialUI
Tailwind

Backend

Python Flask Django Node.js
MySQL PostgreSQL MongoDB
RESTful API Swagger
OpenAPI Specification

Softskills

Analytical Thinking Teamwork
Problem Solving



CERTIFICATES

Full Stack Open

Completed Full Stack Open course from University of Helsinki

- React.js, Hooks, Node.js, REST, MongoDB, GraphQL, TypeScript



EDUCATION

Berlin, Germany
10/2023 - Present

Master of Science - Data Science

Berliner Hochschule für Technik (BHT)

- Thesis:** Building a modern data platform for real-time analytics.

- Skills:** Kafka, Flink, Iceberg, Trino, Pinot, Docker, Kubernetes

Kokkola, Finland
09/2019 - 04/2023

Bachelor of Engineering - Information Technology

Centria University of Applied Sciences

- Thesis:** Building a web application to provide house rental services.

- Skills:** HTML, CSS, JavaScript, Deno Oak, PostgreSQL, Git, CI/CD, Docker, Heroku

Ho Chi Minh City,
Vietnam

Bachelor of Engineering - Electrical Engineering

Ho Chi Minh University of Technology

- Thesis:** Control 17 DOF two-legged humanoid robot.
- Skills:** Arduino, Matlab, Solidworks

12/2012 - 04/2018



Sasken Oy Finland
Kaustinen, Finland

07/2022 - 08/2023

Fulltime - Antenna Testing Engineer

Skills: Hardware Troubleshoots, Antenna Measurements, Documentation

- Perform and test (passive and active antenna) measurements at antenna chamber.
- Hardware troubleshoots: replacing components, cable calibration, component soldering.
- Completed final assembly of new prototype units for consumer electronic devices.
- Verified and tested the functionality of Nokia's products (headsets, phones, TV remotes) using test equipment and integration-based validation methods.
- Conducted hardware testing under thermal and environmental conditions using specialized testing machines.
- Qualified electronic components and identified suitable replacements to ensure consistent performance.
- Writing documentation and reports to customers.

Intel Products Company
Ho Chi Minh City, Vietnam

07/2018 - 08/2019

Fulltime - IT Manufacturing Service Desks Engineer

Skills: Oracle SQL, IT Support, Troubleshooting, Documentation, Problem Solving

- Troubleshoot capabilities in software, and hardware-related problems in Intel's factories.
- Provide remotely front-line technical support at level 1, escalating to upper level when L1's troubleshooting method not worked.
- Developing, managing knowledge, and sharing best practices for incident, problem while collaborating with partner teams.
- Ensure thorough and clear documentation of all internal and customer interactions, and closure of incident tickets.

Ho Chi Minh University of
Technology
Ho Chi Minh City, Vietnam

08/2017 - 07/2018

Working Student - Research Assistant

Publish Paper: "Stable Gait Optimization for Small-Sized Humanoid Robot Using CFO"

Skills: Maths, C++, Arduino, Matlab, Solidworks

- Design robot's frameworks, using Solidworks.
- Calculating inverse kinematic to find robot's physical parameters.
- Applying GA and CFO algorithm to optimize robot's parameters, using Matlab.
- Embedding code into microcontroller to test robot gait, using C++ and Arduino.