



Thea Ullegaard Kjeldsmark

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Education

University of California, Irvine

Masters of Science in Computer Science (MSCS)

Irvine, USA

Expected June 2025

IT University of Copenhagen

Bachelor of Science in Software Development, GPA: 10.79/12.0

Copenhagen, Denmark

Aug 2020 – Jun 2023

- Study abroad semester Spring 2022: American University in Cairo, GPA 3.94/4.0

Minerva University

Part of Bachelor's: Computational and Social Sciences, GPA: 4.0/4.0

San Francisco and Seoul

Aug 2018 – Dec 2019

- Transferred to ITU to pursue computer science.

Industry Experience

Microsoft

Software Engineer Intern

Dublin, Ireland

Jun 2023 – Aug 2023

- Added inline student email verification to Office checkout using C# and React.
- Won "Best Hack" for intern hackathon project that uses the Microsoft Semantic Kernel.

Software Engineer Intern

Jun 2022 – Aug 2022

- Developed a Microsoft Teams app that visualizes how accessible a company's Office files are.
- Used TypeScript and React for the frontend and C# with the .NET framework for the backend.

J.P. Morgan

Software Engineer Intern

Glasgow, United Kingdom

Jun 2021 – Aug 2021

- Designed and implemented a Java framework for translating user-inputted GraphQL queries into SPARQL queries.
- Expanded the framework to include handling of nested groups, several required predicates, and complex naming.

Tradimo Interactive

Data Engineer Intern

Copenhagen and Remote

Jun 2019 – Feb 2020

- Developed a website tracking system through JavaScript, Google Tag Manager, and Google Analytics.
- Created a marketing dashboard in Google Data Studio via APIs and JavaScript to track various KPIs.

Teaching Experience

IT University of Copenhagen

Teaching Assistant, Study Lab (Drop-In Tutoring)

Copenhagen, Denmark

Jan 2023 – May 2023

- Helped 2nd-semester with the courses "Algorithms and Data Structures", "Web Programming", and "Map of Denmark".

Teaching Assistant, Distributed Systems (160 students)

Aug 2022 – Dec 2022

- Assisted students with distributed systems theory and graded Go implementations together with five other TAs.

Teaching Assistant, Introductory Programming (150 students)

Aug 2021 – Dec 2021

- Assisted students with Java object-oriented programming exercises and graded assignments together with eight other TAs.

Minerva University

Writing Peer Tutor

San Francisco, USA

Sep 2018 – Apr 2019

- Selected among 160 students to a team of seven who helped students with their English writing via workshops and 1:1s.

Awards and Achievements

Thanks to Scandinavia

2023

Scholar

- Selected as one of two Danish scholars for graduate tuition scholarship (administered by Fulbright Denmark).

Danish National Cybersecurity Competition (CTF)

Spring 2021

Participant

- Placed in top 25 at the regional competition resulting in qualification for the national competition.

HackIllinois, University of Illinois Urbana-Champaign

Winter 2021

Open Source Fellow (Remote)

- Contributed to Python open source projects ("inflect" and "setuptools") while being mentored by professionals.
- Selected as one of nine outstanding contributors from 46 participants based on contributions and mentor feedback.

Projects

Improving Haaukins (open-source Capture the Flag platform) using Kubernetes | *Go, Kubernetes, Docker*

- Developed a Go program together with two other students that handles CTF users and challenges in Kubernetes.
- Users can connect to challenges via VPN (Wireguard) or an in-browser Kali Linux (Docker and Apache Guacamole).
- Set up a Kubernetes cluster from scratch, implemented monitoring, and analyzed performance tests in R.

Map of Denmark | *Java, Python*

- Collaborated with a team of four to develop a map application featuring visualization, navigation, and address search.
- Implemented R-Trees for efficient range search and modified graph algorithms to provide proper route planning.
- Performed experiments and Python data analysis to compare R-Tree overflow methods and Dijkstra vs. A* routing.

Project Bank | *C#, Docker*

- Developed a project bank application in C# together with five other students that allows students to search for projects, supervisors to publish projects, and an admin to administer general settings.
- Implemented authorization and authentication policy via Azure AD.

Technical Skills

Languages: Java, Go, C#, F#, C, R, Python, JavaScript, SQL, GraphQL

Web Technologies: React, TypeScript, HTML/CSS

Tools: Git, Docker, Kubernetes