

Thea Ullegård Kjeldsmark

✉ tkjeldsmark@gmail.com

✉ tkjeldsm@uci.edu

🌐 [linkedin.com/in/theakjeldsmark](https://www.linkedin.com/in/theakjeldsmark)

🌐 theauk.github.io

Education

University of California, Irvine

Irvine, USA

Master of Science in Computer Science (MSCS), GPA: 4.0/4.0

Expected Jun 2025

- Selected for graduate tuition scholarship funded by Thanks to Scandinavia (administered by Fulbright Denmark).

IT University of Copenhagen

Copenhagen, Denmark

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

Aug 2020 – Jun 2023

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

Industry Experience

Microsoft

Dublin, Ireland

Software Engineer Intern

Jun 2023 – Aug 2023

- Improved student email verification in Office checkout using C#, TypeScript, and React.
- Won "Best Hack" in the intern hackathon together with two other interns for a Microsoft Semantic Kernel project.

Microsoft

Dublin, Ireland

Software Engineer Intern

Jun 2022 – Aug 2022

- Developed a Microsoft Teams app that visualizes how accessible an organization's M365 files are.
- Used TypeScript and React for the frontend and C# with the .NET framework for the backend.

J.P. Morgan

Glasgow, UK

Software Engineer Intern

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.

Teaching Experience

University of California, Irvine

Irvine, USA

Teaching Assistant, Capstone Writing & Communication (CS296P)

Apr 2024 – Jun 2024

- Helping students in the professional computer science masters with their communication skills and capstone project.

IT University of Copenhagen

Copenhagen, Denmark

Teaching Assistant, Study Lab (Drop-In Tutoring)

Jan 2023 – May 2023

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

Teaching Assistant, Distributed Systems

Aug 2022 – Dec 2022

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

Teaching Assistant, Introductory Programming

Aug 2021 – Dec 2021

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

Projects

Bachelor Thesis: Building an open-source CTF platform using Kubernetes | Go, Kubernetes, Docker

- Developed a Go program together with two other students that handles CTF users and Docker challenges in Kubernetes.
- Set up a Kubernetes cluster from scratch, implemented monitoring, and analyzed performance tests in R.

Map of Denmark | Java, Python

- Implemented R-Trees for efficient range search and graph algorithms to provide route planning.
- Performed experiments and Python data analysis to compare R-Tree overflow methods and Dijkstra vs. A* routing.

Awards and Achievements

Women in Cybersecurity (WiCyS) Student Scholar and Poster Presenter

Apr 2024

- Selected for a conference scholarship and travel stipend to the WiCyS conference in April 2024.
- Poster submission "Empowering Cybersecurity Education: Designing a Capture the Flag Platform Using Kubernetes" selected to be presented at the student poster event.

Danish National Cybersecurity Competition (Capture the Flag)

Spring 2021

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

HackIllinois Open-Source Fellow

Feb 2021 – Mar 2021

- 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.

Technical Skills

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

Technologies and Tools: Git, Docker, Kubernetes, Soot, React, TypeScript, HTML/CSS