

Thea Ullegaard Kjeldsmark

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Education

University of California, Irvine

Irvine, USA

Master of Science in Computer Science (MSCS)

Expected June 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*
- Relevant Courses: Software Engineering, Security, Distributed Systems, Databases, Compiler Design, Operating Systems

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.

IT University of Copenhagen

Copenhagen, Denmark

Teaching Assistant

Aug 2021 – May 2023

- Helped students with exercises, held sessions on course topics, gave assignment feedback, and collaborated with other TAs.
- Spring 2023: *Study Lab* drop-in tutoring (algorithms and data structures, Java project, and web programming courses).
- Fall 2022: *Distributed Systems* (Go), Fall 2021: *Introductory Programming* (Java)

J.P. Morgan

Glasgow, United Kingdom

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.

Projects

Improving Haaquins (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 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.

Project Bank | *C#*

- Developed a project bank application with five other students using C# for the API, EF Core, and unit/integration tests.
- Implemented authorization and authentication policy via Azure AD.

Awards and Achievements

Women in Cybersecurity (WiCyS) Student Scholar and Poster Presenter

April 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, React, TypeScript, HTML/CSS