William Bille Meyling

https://github.com/willthbill

Email : williambillemeyling@gmail.com

Mobile : +45 24445317

A friendly 22 year old Computer Science student with a passion for Algorithm Engineering – especially applied Graph Algorithms and Computational Geometry. I have spend the past 8 years finding and pursuing my interests winning numerous national and international competitions along the way. I see myself as an innovative person, who appreciates simple solutions to complicated problems. My attention to detail, systematic mindset and curiosity makes me good at planning and quickly building large projects making few mistakes along the way.

Education

- **University of Copenhagen** — Copenhagen, Denmark
  Bachelor in Computer Science. Grade: 12 — *Sep. 2020 – present (Aug. 2023)*
- **Courses in Algorithms and Cybersecurity** — Denmark
  DDD training camps and DDC cybersecurity courses — *Sep. 2018 – present*
- **NEXT Sukkertoppen Gymnasium** — Copenhagen, Denmark
  High school. Computer Science and Math. GPA: 11.8 — *Aug. 2016 – Jun. 2020*

Experience

- **University of Copenhagen** — Copenhagen, Denmark
  Teaching assistant in the course 'Algorithms and Datastructures' — *Feb. 2023 - Mar. 2023*
- **Jobindex** — Copenhagen, Denmark
  Full-stack Developer. Tools: MySQL, Perl, Vue.js — *Feb. 2021 - Jan. 2022*
- **Dansk Datalogi Dyst (Danish National Olympiad in Informatics)** — Denmark, Indonesia, Germany
  Volunteer. Designing algorithmic problems used to select students for the national team. Training the national team for the International Olympiads in Informatics (IOI). Preparing courses in advanced (beyond bachelor-level) algorithmic techniques. Deputy leader at IOI 2022. — *Feb. 2020 - present*
- **Arnvind Group** — Copenhagen, Denmark
  Frontend Developer. Tools: React. Responsible for a large complicated wep-app. — *Apr. 2019 - Mar. 2020*

Awards and Achievements

- **Winner of Computational Geometry Challenge 2023** — Online and in Dallas, Texas
  Research competition CG:SHOP 2023. Unofficial World Championships in Geometric Algorithms. Qualified for SoCG (the most prestigious Computational geometry conference). Media coverage in DR:P1, Ekstra-Bladet, Videnskab.dk and more. Statement at https://bit.ly/scienceku-wbm23 — *Sep. 2022 – Jan. 2023*
- **Winner of Unge Forskere 2020** — Copenhagen, Denmark (remote)
  Danish National Youth Research Championships 2020. Project about Efficient Graph-based Image-segmentation. Media coverage in DR:P1, DR:P3, Jyllands-posten, Videnskab.dk and more. Statement at https://bit.ly/ungefor-wbm20 — *Apr. 2020*
- **'Best Computational Project' at European Science Championships** — Salamanca, Spain (remote)
  Unge Forskere project received the PRACE Award at EUCYS 2020. Statement at https://bit.ly/prace-wbm21 — *Sep. 2021*
- **Top 52% in the International Olympiad in Informatics (IOI) 2020** — Singapore (remote)
  Competitive Programming. IOI participant in 2019 and 2020. Also participated in Baltic Olympiad in Informatics in 2019 and 2020. — *Aug. 2019 - Sep. 2020*
- **2nd place at Danish AI Championships 2022** — Copenhagen, Denmark
  AI Engineering Competition — *Oct. 2022*
- **2nd place at Danish Programming Championships 2021** — Denmark, Netherlands and Online
  Competitive Programming. 4th in 2020, 2nd in 2021, 3rd in 2022. Qualified for NWERC all three years (Northwestern Europe Regional Contest). — *Oct. 2021*
- **Winner of Danish National Olympiad in Informatics 2019 and 2020** — Denmark
  Dansk Datalogi Dyst. Competitive Programming. Part of the National Team. — *Apr. 2019 – Sep. 2020*
- **Master Title on CodeForces** — Online
  Competitive Programming. Top 1600 in the world. https://bit.ly/cf-wbm — *Sep. 2021 – present*

- **Next Generation Award 2020 (Skau Reipurth)** Copenhagen, Denmark
  Given "as an acknowledgement of his talent, hard work and passion for programming". https://bit.ly/skau-wbm20 *Nov. 2020*
- **Finalist in the Danish Cyber Championships 2022** Copenhagen, Denmark
  De Danske Cyber mesterskaber 2022. Cybersecurity (CTF) Competition *May. 2022*

Projects & Publications

- **ExtensionCC**: An efficient Convex Cover algorithm developed for CG:SHOP 2023.
  Publication: https://bit.ly/SoCGpub-wbm23. Bachelorthesis: https://bit.ly/ba-wbm
- **Universal autonomous graph-based image segmentation with near-linear average complexity**: Unge Forskere project. See more at https://bit.ly/eucys-wbm
- **Pacup**: Open-source tool unifying Linux package managers and making systems reproducable: https://bit.ly/pacup-wbm
- **Opener.nvim**: Open-source Neovim plugin for workspace / context switching: https://bit.ly/opener-nvim
- **Codify**: Chrome extension with over 10000 installations.

Skills & Interests

- **Theoretical Computer Science**: Graph algorithms, Computational Geometry, Software Design, AI
- **Favorite Programming Languages**: C++, Python, Javascript, C, Rust
- **Other**: Linux, DevOps, Cyber-security, Latex, Video editing