William Bille Meyling

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I am a 23 year old Computer Science student with a passion for Algorithm Engineering (especially geometry), software design and ML. 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. My native language is Danish.

Education

- **University of Copenhagen** — Copenhagen, Denmark
  Bachelor in Computer Science. Grade: 12 — *Sep. 2020 – Aug. 2023*
- **Courses in Algorithms and Cybersecurity** — Denmark
  DDD training camps and DDC Cybersecurity courses — *Sep. 2018 – May. 2022*
- **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 Data structures' — *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 Olympiad in Informatics (IOI). Preparing courses in advanced (beyond bachelor-level) algorithmic techniques. Deputy leader at IOI 2022. ***Vice chairman*** *of the technical committee of BOI 2023 (International Competition) (****with salary****).* — *Oct. 2020 - present*
- **Arnvind Group** — Copenhagen, Denmark
  Frontend Developer. Tools: React. Responsible for a large complex wep-app. — *Apr. 2019 - Mar. 2020*

Awards and Achievements

- **Winner of Danish National AI Championships 2024** — Denmark, Online
  2. place in 2022 and 2023. Competitive ML competition. Deep-learning, ML, algorithms, engineering. — *Sep. 2022 – Oct. 2024*
- **Winner of Danish National Programming Championships 2023** — Denmark, Netherlands and Online
  Competitive Programming. 4th in 2020, 2nd in 2021, 3rd in 2022, 1st in 2023 (and 3rd in Scandinavia). Qualified for NWERC all four years (Northwestern Europe Regional Contest). Top 12% at NWERC 2023. — *Nov. 2020 – present*
- **Winner of Computational Geometry Challenge 2023** — Online and in Dallas, Texas
  "Unofficial World Championships in Geometric Algorithms" – a research competition called CG:SHOP. Qualified me 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 – Jun. 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*
- **Top 58% at ICPC European Programming Championships 2024** — Prague, Czech Republic
  Competitive Programming. Scoreboard: https://bit.ly/euc-wbm24 — *Mar. 2024*
- **'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% at 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. — *Apr. 2019 - Sep. 2020*

- **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 Cybermesterskaber 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. Bachelor-thesis: 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 reproducible: 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**: AI, Computational Geometry, Software Design
- **Favorite Programming Languages**: Rust, C++, Python, JavaScript, C
- **Other**: Linux, DevOps, Web development, Cybersecurity, Automation, Latex, Video editing

References

- **Mikkel Vind Abrahamsen (Bachelor supervisor)**
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