



Max Fransson

max.fransson@protonmail.com

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</> Python, Java, C++, Dart

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EDUCATION

- **Chalmers University of Technology** Gothenburg, Sweden
MSc, Software Engineering and Technology Aug. 2020 – Jun. 2022
 - Courses including: Requirements engineering, Information visualization, Software quality, Network security, Computer security, Cryptography, Agile development processes, Empirical software engineering.
 - **Thesis title:** Applying and Maintaining Security Assurance Cases in the Medical Domain: *A Case Study at AstraZeneca*
- **Chalmers University of Technology** Gothenburg, Sweden
BSc, Software Engineering (Informationsteknik) Aug. 2017 – Jun. 2020
 - Courses including: Data structures and algorithms, Databases, Human-computer interaction, Design and implementation of graphical interfaces, Computer communication, Object-oriented programming and design.
 - **Thesis title:** Collaboration Mechanics for Children in Game Environments
 - * Used Unity and four iPads to create a networked multiplayer game. [GitHub repository](#).

EXPERIENCE

- **AstraZeneca** Gothenburg, Sweden
Master Thesis Student January 2022 – June 2022
 - Investigated Security Assurance Case applicability in the medical domain
 - Investigated maintainability of Security Assurance Case in the medical domain**Technologies:** draw.io, TikZ (\LaTeX)
Theory: Security Assurance Cases, Information visualization, Standard compliance, Risk management analysis
- **Chalmers University of Technology** Gothenburg, Sweden
Teaching Assistant March 2020 – June 2020
 - Teaching assistant in course DAT216 (Design and implementation of graphical interfaces).
 - Performed lab/exercise supervision and lab grading**Technologies:** Java, XML, Scene Builder
Theory: UI/UX design, UI prototyping
- **AstraZeneca** Gothenburg, Sweden
Summer Worker June 2018 – July 2018
 - Visualized datasets from AZ clinical studies
 - Aggregated department focus group results**Technologies:** Jupyter Notebook, Pandas, Python
Theory: Information/data visualization, Proof-of-concept software prototyping

PROJECTS

- SonifiedZoom, using face tracking with Python to control Midi input to VCV Rack (digital instrument), project part of the Music Engineering tracks course at Chalmers.
- Dedocahedron infinity LED controller, used an ESP32, Raspberry Pi and MQTT to control WS2812B led strips from an Android application made with Flutter and Dart.
- PCB macropad design using KiCAD, ordered PCBs from JLCPCB in China, assembled the finished product at home in Sweden.

OTHER PROGRAMMING TOOLS

- **Programming languages:** Python, Java, C++, Dart.
- **Game engines:** Unity, Unreal Engine.
- **App development frameworks:** Flutter, Android.
- **Python:** Matplotlib, Pandas, Pyautogui, OpenCV, Django.
- **CAD:** Autodesk Fusion 360, KiCad EDA.