

Aste Ploug Henriksen

Software Engineer

Copenhagen, Denmark | +45 50 55 75 65 | aste@tuta.io | asteploug.com | linkedin.com/in/aste | github.com/aste

Profile

Versatile Software Engineer with a background in **civil engineering** and **data-driven design**. I build **scalable** and **intuitive products** that people love to use. I thrive in **mission-driven teams** that **challenge conventions** and foster **curiosity, collaboration** and **thoughtful engineering**.

Skills

Languages	JavaScript	TypeScript	Python	HTML	CSS
Frameworks	React	Node.js	Tailwind	Bootstrap	Jest
Tools	Git/GitHub	CI/CD	GCP	Netlify	PostgreSQL

Experience

Independent Consultant | Software Engineer & Construction Engineer

Aug 2022 – Present | Copenhagen

- o **Built and deployed** a responsive, SEO-optimized [web application](#) for Tandklinikken Frederikssund, including a **custom booking and contact system**, using **JavaScript, APIs, Bootstrap** and **Netlify** – **boosting site traffic and user engagement by 400%**.
- o Delivered civil engineering consulting for residential and commercial projects, applying **analytical problem-solving** and **project management** to ensure fast delivery and regulatory compliance.

Computas | Software Engineer Intern

Feb 2022 – Apr 2022 | Copenhagen

- o Assisted with updates to internal tools and client projects for **IKEA** and **Wash World**, working with **Angular, TypeScript** and cloud-based **development workflows** on **Google Cloud Platform**.

Rambøll | Computational Design Engineer

Jan 2017 – Nov 2021 | Copenhagen

- o **Developed 3D software tools** using **Python** and Grasshopper to **automate CAD workflows**, saving over **1,000 hours** of manual design and engineering work and contributing to the **successful win and delivery of 10+ projects**.
- o Ranked **7 of 700+ teams (top 1%)** in **Rambøll's Innovation Cup** by prototyping a circular reuse solution for wind turbine materials in the construction industry.

Hayway | Founder & Design Engineer

May 2014 – Oct 2021 | Copenhagen

- o Founded and led a **design and innovation firm**. Developed an **experimental myopia-reversing lens** with **Rigshospitalet**, and created **C-sense**, a cyclist safety technology with **Imtech**, among other projects.

3XN | Computational Design Engineer

Jan 2014 – Jul 2015 | Copenhagen

- o Led the **parametric design** and **automation** for Quay Quarter Tower's facade using **Python** and Grasshopper, contributing to 3XN's **first international high-rise win**, later awarded the **International High-Rise Award 2023**.

Education

Aalborg University | MSc., Eng. in Architecture

Aalborg University | BSc., Architecture and Design

Coursework

MITx | Computer Science

Coursera | Google Cloud Fundamentals

MITx | Computational Thinking & Data Science

100devs | Software Engineering