Asger Juul Brunshøj

Born: 1990.

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Profile

I am a Software Engineer specialized in efficient and scalable algorithmic design. I have a natural attraction to logical puzzles, and that affinity for problem solving has made me passionate about implementing efficient and elegantly structured programs.

Current position

2018- **Consultant at Dania Consulting**
Dania consults for the Danish healthcare industry.

Experience

2016-2018 **Frontend Software Engineer at getQueried**
I was the lead developer of the WHAT app on Android and iOS – a social polling platform that makes it easy and fun to ask and answer questions.
The app is a hybrid app, which means it is developed with web technologies such as TypeScript, RxJS, Angular, Ionic and packaged as a mobile app using Cordova.

2012-2016 **Teaching assistant at DTU**
I worked as a teaching assistant of several courses while I was studying – Primarily courses on algorithms & data structures, and structural engineering.

2014 **Contributor to Storj**
I made code contributions to Storj during the summer holidays. Storj is an open source blockchain-based, end-to-end encrypted, distributed object storage.
My primary contribution to the project was towards a cross-platform desktop client.
Additional contributions include editing of the first version of their whitepaper.

Education

2014-2016 **Master of Science in Engineering (Mathematical Modelling and Computation)**.
My master's degree is in Mathematical Modelling and Computation from the Technical University of Denmark - Department of Applied Mathematics and Computer Science.

Link to courses and grades as a PDF.

Master's Thesis:
Title: Scalable Plagiarism Detection.
Company: Peergrade - an online platform to facilitate peer feedback sessions with students.
Supervisors: Philip Bille, Inge Li Gørtz, David Kofoed Wind.
Description: The focus of the thesis is the design of efficient and scalable algorithms for automatic plagiarism detection.
A new system was designed and implemented as part of the project, intended for use by Peergrade.

Link to report for Master's Thesis.

2010-2014 **Bachelor of Science in Engineering (Architectural Engineering)**.
My bachelor's degree is in Architectural Engineering from the Technical University of Denmark.

Link to courses and grades as a PDF.

Bachelor's Thesis:
Title: Visualization of Beams with Coupled Bending and Torsion Vibrations.
Supervisors: Jan Becker Høgsberg.
Description: Beams with cross sections that are not symmetric on both axes exhibit coupled bending and torsion vibrations. I solved the coupled partial differential equations of motions analytically, allowing modes of the solutions to be analyzed and visualized in parts. A MATLAB program with a graphical interface was implemented, allowing students to get a feel for coupled vibrations by animating the vibrations for different settings and parameters.

Link to report for Bachelor's Thesis.