Thijs Dreef
Software engineer

Experience

AdaCore Software Engineering Intern Feb 2023 - August 2023
- Designed a plan to implement WebAssembly support for the Ada programming language.
- Build a modified version of the Ada runtime to support WebAssembly.
- Published a blog post about the proposed plan.

Quantib Junior Software Engineer Feb 2021 - Feb 2023
- Developed a high-performance rendering pipeline for medical images using WebGL.
- Developed Web based high performance medical image viewer, used in FDA certified products.
- Developed extensible architecture which facilitates medical image editing tool development.
- Wrote unit tests for medical image viewer which boasts a 100% code coverage.

Superhero Cheesecake Junior creative developer Jun 2019 - Jul 2022
- Developed WebGL experiences for clients such as Wajer, Puma, Lucid motors and more.
- Developed internal tools to optimize rendering of WebGL.
- Developed asset pipelines to convert PNG textures to compressed textures for each specific platform (Direct X, Power VR, OpenGL ES).

Dutch 5 Game Development Intern Sep 2018 - Feb 2019
- Optimized net code by grouping units together to reduce required synchronization load.
- Optimized rendering pipeline by introducing instanced mesh rendering.
- Optimized terrain mesh generation.

Superhero CheeseCake Junior creative developer Jul 2018 - Sep 2018
- Developed WebGL MSDF font rendering library.

Superhero Cheesecake Feb 2018 - Jul 2018
- Developed WebGL experiences for clients such as Heineken, Adidas, Brooks and others.
- Performed feasability studies for new WebGL projects.

Education

M.Sc. Computer Science 2023 - 2025 Vrije Universiteit van Amsterdam (VU) and University of Amsterdam (UvA)
- Specialization in Foundations of Computing and Concurrency

B.Sc. Software Engineering 2019 - 2023 Amsterdam University of Applied Sciences
- Cum laude
- Honours: Technical informatics
- Minor: Deep programming (VU) Vrije Universiteit Amsterdam
- GPA: 8.9 / 10

Secondary vocational education 2016 - 2019 MediaCollege Amsterdam
- Nominal time is 4 years