# David Hall

📞 +46-(0)73-064-95-45      in /david98hall

✉ david.emanuel.hall@gmail.com      ⚙ /david98hall

## 💼 Work Experience

**Cloud Software Group**      October 1, 2022 – Present
*Software Engineer, Spotfire*      *Gothenburg, Sweden*
> New development in both back-end and front-end.
> Working in an international team.

**TIBCO**      July 11 – September 30, 2022
*Software Engineer, TIBCO Spotfire*      *Gothenburg, Sweden*
> New development in both back-end and front-end.

**Syntronic**      January 25 – June 11, 2022
*M.Sc. Thesis Intern, Chalmers University of Technology*      *Gothenburg, Sweden*
> Collaborated with MedTech West and Sahlgrenska Academy

**TIBCO**      June 14 – August 20, 2021
*Junior Developer (Summer Internship), TIBCO Spotfire*      *Gothenburg, Sweden*
> New development in back-end.

**TIBCO**      June 8 – August 21, 2020
*Associate Engineer (Summer Internship), TIBCO Spotfire*      *Gothenburg, Sweden*
> New development in both back-end and front-end.

## 🎓 Education

**Chalmers University of Technology**      2017 – 2022
*Civilingenjör i Software Engineering (Informationsteknik)*      *Gothenburg, Sweden*
> 300 credits

**Chalmers University of Technology**      2020 – 2022
*M.Sc. Data Science and AI*      *Gothenburg, Sweden*
> 120 credits
> Thesis at Syntronic: *Machine learning for brain activity analysis*

**Chalmers University of Technology**      2017 – 2020
*B.Sc. Software Engineering (Informationsteknik)*      *Gothenburg, Sweden*
> 180 credits
> Thesis: *A Unity Asset for Procedurally Generating Cities*

**Rosendalsgymnasiet**      2014 – 2017
*Natural Sciences Program (High School)*      *Uppsala, Sweden*
> Thesis: *Fractals and Their Hidden Dimension*

## ✏️ Hobby Projects

### Android Apps

> "Bomb Clearer" – A material design minesweeper game.
> "Seniorradio" – Swedish radio app for the elderly.
> "Walkabout" – An app for randomizing walks.
> "GRID" – A puzzle game where you need to remember patterns.

### Open Source

> tmdb-js – A JavaScript wrapper for the TMDb (The Movie Database) API.


## 📘 Skills

### Programming and Markup Languages Used Professionally

> C#
> Java
> Python
> SQL
> TypeScript

> React
> JavaScript
> HTML
> CSS

### Software Development

> Fullstack – Back-End and Front-End
> Object-Oriented Design Patterns
> Object-Oriented Design Principles
> Concurrent/Parallel Programming

> Agile Development and Scrum
> Testing
> Version Control (Git)
> Databases (Relational and NoSQL)

### Artificial Intelligence and Machine Learning

> Supervised Learning
> Unsupervised Learning
> Reinforcement Learning

> Neural Networks and Deep Learning
> Avoiding Overfitting/Underfitting
> Model Evaluation Techniques

### Mathematics

> Modelling and Problem Solving
> Statistics
> Probability
> Nonlinear Optimization
> Linear Algebra

> Multivariable Calculus
> Discrete Mathematics
> Stochastic Processes
> Bayesian Inference
> Causality and Causal Inference


## 🌐 Languages

**Native**   Swedish
**Fluent**   English
**Beginner**   Spanish