

# David Hall

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## Education

### **Chalmers University of Technology**

Civilingenjör i Software Engineering (Informationsteknik)

- > 300 credits

2017 – 2022

Gothenburg, Sweden

### **Chalmers University of Technology**

M.Sc. Data Science and AI

- > 120 credits
- > Thesis at Syntronic: *Machine learning for brain activity analysis*

2020 – 2022

Gothenburg, Sweden

### **Chalmers University of Technology**

B.Sc. Software Engineering (Informationsteknik)

- > 180 credits
- > Grade: 4.4/5
- > Thesis: *A Unity Asset for Procedurally Generating Cities*

2017 – 2020

Gothenburg, Sweden

### **Rosendalsgymnasiet**

Natural Sciences Program (High School)

- > Grade: 4.4/5
- > Thesis: *Fractals and Their Hidden Dimension*

2014 – 2017

Uppsala, Sweden

## Work Experience

### **TIBCO Spotfire**

Junior Developer in Data Access (Summer Internship)

- > New development in back end.
- > Worked in an international team.

June 14 – August 20, 2021

Gothenburg, Sweden

### **TIBCO Spotfire**

Associate Engineer in Data Access (Summer Internship)

- > New development in both back end and front end.
- > Worked in an international team.

June 8 – August 21, 2020

Gothenburg, Sweden

## 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 Languages

- |              |          |
|--------------|----------|
| > C#         | > Erlang |
| > Java       | > SQL    |
| > Python     | > SPARQL |
| > JavaScript | > Cypher |
| > C          | > R      |
| > Haskell    | > MATLAB |

### Artificial Intelligence and Machine Learning

- |                          |                                     |
|--------------------------|-------------------------------------|
| > Supervised Learning    | > Neural Networks and Deep Learning |
| > Unsupervised Learning  | > Avoiding Overfitting/Underfitting |
| > Reinforcement Learning | > Model Evaluation Techniques       |

### Software Development

- |  |                                    |
|--|------------------------------------|
| > Back End and Front End                         | > Testing                          |
| > Object-Oriented Design Patterns and Principles | > Version Control (Git)            |
| > Concurrent/Parallel Programming                | > Databases (Relational and NoSQL) |
| > Agile Development and Scrum                    | > Techniques for Large-Scale Data  |
|  | > Semantic Web                     |

### Mathematics

- |                                 |                                  |
|---------------------------------|----------------------------------|
| > Modelling and Problem Solving | > Discrete Mathematics           |
| > Statistics and Probability    | > Stochastic Processes           |
| > Nonlinear Optimization        | > Bayesian Inference             |
| > Linear Algebra                | > Causality and Causal Inference |
| > Multivariable Calculus        |                                  |

## Languages

**Native** Swedish

**Fluent** English

**Beginner** Spanish

## Miscellaneous

**Driver's License** Since 2017-03-03.