

# David Hall

+46-(0)73-064-95-45  
david.emanuel.hall@gmail.com

in /david-hall  
/david98hall  
davidhall.se



## Education

### Chalmers University of Technology

*M.Sc. Data Science and AI*

> 120 credits

2020 – 2022

Gothenburg, Sweden

### Chalmers University of Technology

*Civilingenjör i Software Engineering (Informationsteknik)*

> 300 credits

2017 – 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

*Associate Engineer*

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

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

- › Elevator Music VS – A Visual Studio extension that plays elevator and lounge music when projects build.

## Skills

### Programming Languages

- |              |           |
|--------------|-----------|
| › C#         | › C       |
| › Java       | › Haskell |
| › Python     | › Erlang  |
| › SQL        | › R       |
| › JavaScript | › MATLAB  |

### Software Development

- |  |                                   |
|--|-----------------------------------|
| › Back End and Front End                         | › Techniques for Large-Scale Data |
| › Object-Oriented Design Patterns and Principles | › Agile Development and Scrum     |
| › Concurrent/Parallel Programming                | › Version Control (Git)           |
| › Databases                                      | › Continuous Integration          |
|  | › Testing                         |

### Mathematics

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

### Artificial Intelligence and Machine Learning

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

## Languages

**Native** Swedish

**Fluent** English

**Beginner** Spanish

## Interests

**Sports** Basketball and tennis (as well as watching biathlon and cross-country skiing).

**Music** Rock, funk rock, punk, ska, indie, etc.

**Literature** Dystopian fiction, science fiction, fantasy, comedy, etc.

## Miscellaneous

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