

# Max Böcker

Krakaustraße 38  
52064 Aachen  
📞 (+49) 15156002707  
✉ max@morbatex.com  
🌐 morbatex.com

## Education

- 2021–today **B. Sc. Applied Mathematics and Informatics (dual)**, *FH Aachen*, Aachen
- 2021–2024 **Mathematical Technical Software Developers - Apprenticeship**, *m3connect GmbH*, Aachen, Average grade 2.4
- 2014–2021 **B. Sc. Computer Science**, *RWTH Aachen University*, Aachen
- 2006–2014 **Secondary school**, *Bischöfliche Canisiusschule Ahaus*, Ahaus, Degree: Allgemeine Hochschulreife with an average grade of 2.3

## Working experience

- February 2024–today **Software Developer**, *m3connect GmbH*, Aachen
- New and ongoing development of infotainment systems for hotel TVs
- Development of web based frontends
  - Development of backend services
  - Ensuring stable operation
  - Development of architecture, standards and processes
  - Extension and improvement of CI/CD pipelines
- Used technologies:* HTML, CSS, JavaScript, TypeScript, Vue.js, Node.js, Express.js, PHP, Symfony, Docker, Docker Compose, Kubernetes, Linux, Puppet, git, Gitlab CI/CD, Elastic, Grafana, Kibana, Elastic APM, REST
- September 2021–January 2024 **Trainee Mathematical Technical Software Developers**, *m3connect GmbH*, Aachen
- New and ongoing development of infotainment systems for hotel TVs and of captive portals
- Development of web based frontends
  - Development of backend services
  - Ensuring stable operation
  - Extension and improvement of CI/CD pipelines
- Used technologies:* HTML, CSS, JavaScript, TypeScript, Progressive Web Apps, Vue.js, Node.js, Express.js, Java, Spring Boot, Java Persistence API, PHP, Symfony, Docker, Docker Compose, Kubernetes, Linux, Puppet, git, Gitlab CI/CD, Grafana, REST
- April 2019–December 2020 **Research assistant**, *Fraunhofer Institute for Production Technology IPT*, Aachen
- Ongoing development of NCPProfiler, a Java software for automatic NC data analysis for 5-axis milling machines
- Design and development of a REST-API
  - Design und development of a web based frontend
  - Integration into existing projekte of the IPTs
  - Setup and operation of servers
- Used technologies:* Java, Swing, TypeScript, Angular, WebSocket, C#, Linux, Docker Swarm, Traefik, Bash, git, GitLab CI/CD

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## Additional experience

2019 **Hackathon „#hackingforfuture - Let's Create the Production of Tomorrow!“ participation with 4 other people**, *Fraunhofer International Center for Networked Adaptiv Production (ICNAP)*, Aachen, Best overall product

Development of a software solution for detecting machine errors, their statistical and graphical processing and their handling by the machine operator

*Used technologies:* HTML, CSS, Javascript, React.js, WebSocket, Rust, Python

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## Private projects

### Ebocker

REST service and website for managing ebooks

*Used technologies:* HTML, CSS, JavaScript, Vue.js, Rust, Docker, MySQL, Rocket, Diesel, REST

### Seitanic Cookbook

REST service and website for a shared recipe book

*Used technologies:* HTML, CSS, TypeScript, Vue.js, Rust, Docker, MongoDB, Rocket, REST

### Matekasse

GraphQL service and Raspberry Pi touchscreen frontend for managing accounts and their credits of a shared coffee fund based on NFC tags

*Used technologies:* HTML, CSS, TypeScript, Vue.js, Rust, Docker, GraphQL, PostgreSQL, Hasura, NFC, WebSockets

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## IT skills

Programming languages, frameworks und technologies HTML, CSS, JavaScript, TypeScript, Rust, Java, C, C++, PHP, Bash, Node.js, Vue.js, Angular, React, Express.js, Spring Boot, Java Persistence API, Symfony, GraphQL, Elastic, MongoDB, MySQL, PostgreSQL, SQLite

Operations Linux, NGINX, Apache HTTP Server, Traefik, Docker, Docker Compose, Docker Swarm, Kubernetes, Grafana, Kibana, Elastic APM, Puppet

Development tools Git, Jujutsu, SVN, npm, yarn, Cargo, Composer, Make, Gitlab CI/CD, Github Actions, Jira

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## Languages

German First language

English Fluently

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## Additional skills

Driver's license Class B

Trainer Trainer aptitude test passed in December 2024