

# SAIF RASHED

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## INFO

Saif Rashed  
Wijk bij Duurstede, Utrecht  
saifrashed.com

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## WORKED WITH

Programming languages:  
Java, Javascript, C, C++, PHP,  
Python, Haskell, Kotlin, Dart,  
COBOL

Libraries, tools, and frameworks:  
Git, HTML, CSS, Tailwind CSS,  
NodeJS, React, Angular, Next.js,  
Flutter, Spring Boot, Prisma,  
Jetpack Compose, Express.JS,  
Postman, GitHub Actions

Databases:  
MySQL, MongoDB, SQLite,  
PostgreSQL, DB2

OS and environments:  
MacOS, Linux, Windows, AWS,  
GitHub, Docker, z/OS

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## LANGUAGES

Dutch  
Native

English  
C1 Cambridge (Academic)

Arabic  
Proficient

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## BIO

Saif Rashed (24) is a programmer. In 2020 he began his bachelor program at the Amsterdam University of Applied Sciences in the field of Software Engineering. During this time he had placements at notable companies such as CERN, AMS-IX, and the Rabobank. After graduating cum laude, he then started his master's program at the University of Amsterdam where he researched the use of artificial intelligence to improve the software engineering process.

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## EDUCATION

### MSc Software Engineering | University of Amsterdam

SEP 2024 – AUG 2025

GPA: 7.33

Courses and activities:

- Model-based Design of Cyber-physical Systems (8.0)
  - DevOps and Cloud-based Software (7.5)
  - Software Evolution (7.5)
  - Software Specification, Verification and Testing (7.5)
  - Requirements Engineering (7.5)
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### Premaster Software Engineering | University of Amsterdam

JAN 2023 – JUNE 2023

GPA: 8

Courses and Activities:

- Project Software Engineering (9.0)
  - Compiler construction (7.5)
  - Automata & Formal languages (8.0)
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### BSc HBO-ICT Software Engineering | AUAS

SEP 2021 – JUNE 2024

GPA: 8.34 (Cum Laude)

Courses and activities:

- Mobile development (9.0)
  - Software engineering (9.0)
  - Algorithms and Data Structures (8.0)
  - Graduation Project (8.0)
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### MBO 4 Application and Media Developer | ROC MN

AUG 2017 – JUNE 2020

## WORKING EXPERIENCE

### Freelance Embedded | Delta Sport Innovation

OKT 2023 – AUG 2025

- Freelanced for Delta Sport Innovation, a company founded by Nico Delleman, a professor trained as a human movement scientist who earned his doctorate at VU University Amsterdam.
  - Developed a secure, time-critical, and accurate physical activity monitor.
  - Created an iOS/Android mobile client application.
  - Designed and created C++-based firmware for the embedded [Movesense](#) Bluetooth sensor platform.
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### Freelance Web/Mobile | Oufaska

OKT 2020 – AUG 2025

- Operated Oufaska, a sole proprietorship providing web and mobile services.
  - Developed web infrastructure for over 20 different starter companies (cases available on [the website](#)).
  - Released 3 iOS/Android apps built on Flutter.
  - Ran Meta and Google Search ad campaigns.
  - Utilized Google Search Console and Google Analytics to quantify user interaction.
  - Performed web development, hosting, email configuration, DNS changes, and migrations.
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### Software Engineer Placement | CERN

NOV 2023 – JAN 2024

- Contributed to an open-source bookkeeping system for ALICE, a detector at the LHC.
  - Developed D3.js visualizations.
  - Optimized Sequelize ORM database operations.
  - Collaborated remotely with the team based in Switzerland.
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### Software Engineer Placement | AMS-IX

NOV 2022 – FEB 2023

- Implemented a Jetpack Compose (Android) app with a team of four.
  - Partnered with Jan Boeschoten, Innovation Manager at Amsterdam Internet Exchange.
  - Created an app for managing personal data.
  - Final grade of 9.
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### Student Assistant | Amsterdam University of Applied Sciences (AUAS)

NOV 2022 – JAN 2023

- Assisted in teaching core software concepts to Business IT & Management students.
  - Provided feedback on students' work.
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### Intern | Rabobank HQ First Line Risk

FEB 2022 – MAY 2022

- Worked on sherLOCK, a tool built with Microsoft Power Platform.
  - Automated risk assessment procedures across the bank using the tool.
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### Sports Canteen | Stichting WijkSport

AUG 2018 – FEB 2025

- Sold items.
  - Managed the fitness bar.
  - Restocked food and drinks.
  - Coordinated with hall renters, such as the judo federation and the kickboxing club.
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### PHP Developer | Blue Mammoth

AUG 2018 – JAN 2020

- Implemented e-commerce solutions for clients.

# RESEARCH

## Master thesis | Complex Cyber Infrastructure (CCI) group

DEC 2024 – AUG 2025

- Investigated an automated approach for energy-efficient software refactoring using Large Language Models (LLMs).
  - Introduced a two-stage pipeline for detecting green anti-patterns.
  - Generated targeted prompts to remediate and replace these patterns with LLMs.
  - Achieved an average energy cost reduction of 82%, ranging from 64% to 90%.
  - Demonstrated a feasible approach to automating energy-efficient code maintenance.
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## Bachelor thesis | Rabobank HQ Current Account & Routing

FEB 2024 – JUL 2024

- Designed a COBOL stub in the z/OS mainframe environment to isolate the batch booking service from the savings system during testing.
- Aimed to improve system testability and reduce testing time.
- Conducted qualitative interviews with the tester and business analyst.
- Created a list of requirements based on the findings.
- Executed and tested the implementation.

# REFERENCES

### Paulo Santos Paiva

- Rabobank Utrecht First Line Risk

### Loek Kersseboom

- Rabobank Utrecht
- Retired engineer Current Account & Routing

### Tom Sterk

- Rabobank Utrecht
- Manager Current Account & Routing

### Jan Boesschoten

- Amsterdam Internet Exchange
- Innovation Manager

### George Raduta

- CERN
- Full stack Engineer

### Walid Bouhbass

- Kies Met Verstand (Client of Oufaska)
- Dentist/Owner

### Nico Delleman

- Delta Sport Innovation
- Movement scientist and founder