

# Johann Emrich



## Personal

Name Johann Emrich (née Röhl)  
Birthday 03/19/1987  
Birthplace Eutin  
Nationality German

## Skills

NodeJs  
Go  
Python  
JavaScript / TypeScript  
ReactJs  
GatsbyJs  
HTML5 / CSS3  
Amazon Web Services  
NoSQL DB  
SQL DB

## Education

10/2014 - 10/2017  
**Studies of media informatics - BA**  
Beuth University of Applied Sciences, Berlin

08/2011 - 01/2014  
**Education photographer - Journeyman**  
adP Photostudios GmbH, Hamburg

08/2010 - 01/2011  
**Training rescue paramedic**  
ASB Hamburg, Hamburg

08/1997 - 08/2008  
**Abitur (equivalent to A-levels)**  
Baltic Gesamtschule / Johanneum zu Lübeck, Lübeck

## Certificates and qualifications

04/2020  
**Cloud Architecture with Google Cloud Specialization**  
Coursera

03/2020 - 03/2022  
**Contentful Certified Professional**  
Contentful

11/2019  
**Grundlagen des Onlinemarketings**  
Google

11/2018  
**AWS Certified Solutions Architect - Associate**  
Amazon Web Services

02/2018  
**Machine Learning**  
Coursera / Andrew Ng



[www.linkedin.com/in/johannroehl](https://www.linkedin.com/in/johannroehl)



[www.github.com/jroehl](https://www.github.com/jroehl)

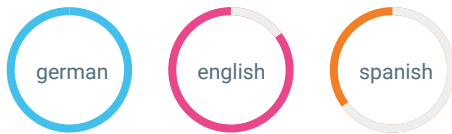


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## Languages



## Tools, methods, frameworks

Agile, Amazon Web Services (AWS), Application Programming Interfaces, Bash, Bitbucket, Bootstrap, Chrome Developer Tools, CircleCi, Content Management Systems (CMS), Contentful, Continuous Integration and Continuous Delivery (CI/CD), CSV, Cybersecurity, Docker, Full-Stack Development, Git, GIT, GitHub, Go, Google Cloud Platform (GCP), GSuite, Holacracy, HTML/CSS, JavaScript, JIRA, JSON, Kanban, Kubernetes, Microsoft Visual Studio Code, MongoDB, MySQL, Netlify, NodeJs, Objectives and Key Results (OKRs), PostgreSQL, ReactJs, Responsive Webdesign, Scrum, Security Awareness, Shell-Scripting, Slack, Softwaredevelopment, SQL, SVG, TypeScript, Web Services, XML, Yaml

## About me

As a CTO and experienced full-stack developer, I bring 8+ years of expertise in backend and frontend development, as well as DevOps with a primary focus on AWS. I am an organized and driven team player, blending logic with creativity to deliver results. My advanced proficiency in NodeJs, Go, JavaScript (TypeScript), HTML5, CSS3, React.js, and Gatsby.js enables me to develop innovative and scalable solutions for complex challenges. Let's connect and explore how I can contribute to your next project.

## Work

- 03/2021 - Present  
**Software developer & Web designer**  
 Freelance | Full-time  
 Berlin, [www.hinterland.software](http://www.hinterland.software)
- 06/2022 - Present  
**Chief Technology Officer | HERMONE**  
 Freelance | Part-time  
 Berlin, [hermone.health](http://hermone.health)
- 06/2019 - 03/2021  
**FullStack JS developer | Contentful GmbH**  
 Employed | Full-time  
 Berlin, [www.contentful.com](http://www.contentful.com)
- 01/2018 - 06/2019  
**Software developer | MYCS GmbH**  
 Employed | Full-time  
 Berlin, [www.mycs.com](http://www.mycs.com)
- 01/2017 - 01/2018  
**Working student | MYCS GmbH**  
 Employed | Part-time  
 Berlin, [www.mycs.com](http://www.mycs.com)
- 08/2015 - 01/2018  
**Working student | GIGA**  
 Employed | Part-time  
 Hamburg, [www.giga-hamburg.de](http://www.giga-hamburg.de)
- 04/2014 - 03/2021  
**Software developer & Web designer**  
 Freelance | Part-time  
 Berlin, [www.hinterland.software](http://www.hinterland.software)
- 02/2014 - 04/2014  
**Photographer | adP Photostudios GmbH**  
 Employed | Full-time  
 Hamburg, [www.adp-photostudios.de](http://www.adp-photostudios.de)



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## Selected projects

### Interim Chief Technology Officer

06/2022 - Present, Freelance | Part-time

Served as Interim CTO for a Femtech company, where I was responsible for planning and implementing AWS serverless infrastructure, developing a React Native app, providing strategic consulting, and managing the project.

AWS API Gateway, AWS AppSync, AWS CloudFront, AWS DynamoDB, AWS ECS, AWS Fargate, AWS Lambda, AWS S3, Architecture, CDK, Contentful, Docker, GitHub Actions, GraphQL, Project Management, React Native, Serverless

### CMS Migration Project

2021 - 2023, Freelance | Full-time

Successfully migrated a prominent news organization from a legacy CMS to Contentful. The comprehensive project involved transferring vast content, developing custom frontend applications, and crafting backend solutions. Additionally, the project leveraged AWS Terraform for infrastructure management and integrated GitHub Actions to establish a streamlined CI/CD pipeline.

AWS, Contentful, GitHub Actions, NodeJs, ReactJs, Terraform, TypeScript

### Website for Research Institute

06/2021 - 01/2022, Freelance | Full-time

Conception and development of a fail-safe website linked with a research information system. Data is automatically fed into a CMS, manually enriched, and displayed on the website, utilizing technologies such as GatsbyJs, ReactJs, TypeScript, AWS services, and Docker.

AWS API Gateway, AWS CloudFront, AWS ECS, AWS Fargate, AWS Lambda, Docker, GatsbyJs, NodeJs, Pure API, ReactJs, Serverless, TypeScript



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## Migration of Legacy AngularJS to ReactJS

03/2020 - 03/2021, Employed | Full-time

Migration of a substantial legacy AngularJS codebase to ReactJS, utilizing TypeScript and modern development practices to enhance maintainability and performance.

Angular, ReactJs, TypeScript

## Automated Label Printing through API Design

01/2019 - 03/2019, Employed | Full-time

Designed and implemented a specialized API to enhance warehouse operations. This system streamlined the label printing process, integrating seamlessly with existing management systems. As a result, manual interventions were minimized and errors reduced in order processing.

AWS, CircleCi, Go, IoT, NodeJs, PostgreSQL

## Cloud Container Orchestration Integration

03/2018 - 07/2018, Employed | Full-time

Established and integrated both EKS and ECS cloud container orchestration services, streamlining the migration of existing APIs. This initiative enhanced the scalability and reliability of our system infrastructure.

AWS, Bash, Docker, Kubernetes

## CI/CD process NetSuite

01/2018 - 06/2018, Employed | Full-time

Conceived and successfully implemented a workflow for Netsuite, facilitating the adoption of modern development practices. Additionally, developed an open-source CLI, enhancing file handling capabilities within Netsuite.

Bash, CircleCi, Go, Netsuite, NodeJs, SuiteTalk

## Twitter Data Collection for Network Analysis

01/2015 - 06/2015, Freelance | Part-time

For a social science study on Arab Islamists' connections on Twitter, developed tools to harness tweets using Twitter's Streaming and REST-APIs. Data was stored and subsequently processed to facilitate in-depth network analyses.

AngularJs, GraphQL, MongoDB, Python, TwitterAPI



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