TWELFTH COHORT

SEPTEMBER 2023

CERTIFICATE OF COMPLETION

This document acknowledges that

Marvin Werkmeister

has successfully completed a 13-week full-stack software engineering education at Coyotiv School of Software Engineering from Jun 12, 2023 to Sep 8, 2023 for 520 hours.

^^coyotiv®

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Managing Director

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The topics of the Coyotiv 13-week full-stack software engineering program:

Software Engineering

- Object-Oriented Programming
- UML Diagrams & PlantUML Applications
- SOLID Principles
- End-to-End Testing
- Design Patterns
- Event-Driven Architecture
- Debugging with Node.js and Chrome Dev Tools

Project & Product Management and Software Development Lifecycle

- LEAN Practices & Kanban
- Planning Minimum Viable Products and product phases
- Prototyping with Balsamiq
- Working in an engineering team and understanding the engineering team culture

Frontend Development

- HTML5
- CSS3
- JavaScript
- Responsive Web Design
- Vue.js and Vuex
- Nuxt.js
- Accessibility

Databases

- Relational and non-relational databases
- MongoDB
- Mongo ODM
- MongoDB Aggregation

Backend Development

- Node.js
- Express.js and Pug
- External APIs
- Authentication with Passport.js
- Real-time data communication with Socket.io
- Publishing an open-source library to NPM
- Security

Continuous Integration and Continuous Deployment

- Docker + Docker Compose
- Unit Testing
- Deployment with Google Cloud Run

Cross-functional Topics

- Source Code Management: Git and GitHub
- Problem solving and root cause analysis
- Career Coaching