

MEZEKR WELDU

Full-stack web developer

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🌐 LinkedIn 🐙 GitHub 📁 Portfolio

SUMMARY

Full stack web developer with hands-on experience in developing responsive websites and web applications using JavaScript, Node.js, Express, MongoDB and React as well as mobile applications using React Native and data processing using Python. Solution oriented and collaborative, eager to work closely with clients to realize their ideas and effectively overcome challenges.

TECHNICAL SKILLS

Front-end: JavaScript | Typescript | HTML | CSS | ReactJS | Angular | Redux | Jest | Cucumber | Puppeteer | jQuery | AJAX | SASS | Tailwind CSS | Bootstrap | UI/UX | User Flow | Wireframes ...

Back-end: NodeJS | Express | SQL | MongoDB | RESTful API | JSON | MySQL | Python | Django ...

Dev Tools: Git | GitHub | Docker | CI/CD | AWS | Linux (Ubuntu) | Vite | Webpack | Jira | Postman ...

WORK EXPERIENCE

Software Developer 03/2023 - 08/2023
Pulsotronic GmbH & Co. through FERCHAU GmbH, Niederdorf / Chemnitz

- Designed and implemented a software module for data preprocessing and signal analysis, resulting in more accurate frequency analysis
- Performed statistical and frequency analyses to identify key trends and patterns in data
- Tech-Stack: Python, Pandas, Scipy, Librosa, Git, Gitlab, Jupyter Notebook, Plotly, Jira

Python Developer as Research & Teaching Assistant 12/2020 - 06/2022
TU Bergakademie Freiberg, Freiberg (Saxony)

- Developed the github2pandas_manager package to optimise retrieving open source repository data from GitHub using a REST API.
- Developed an algorithm to bypass the GitHub Restful API rate limit to optimise data processing and retrieval time.
- Collaborated on data analysis to research collaborative programming learning between computing and noncomputing students.
- Tech-Stack: Python, Pandas, Git, GitHub, GitHub REST-API, Jupyter Notebook

Information Communication Technology Teacher 09/2013 - 07/2014
Sembel secondary school (Sss), Asmara

- Expanded and maintained the school's local area network, providing more staff and students with access to e-learning resources
- Improved learning outcomes by expanding access to IT resources and e-learning materials for staff and students by 40%, resulting in a better educational experience

EDUCATION

Master of Science in Applied Computer Science
TU Bergakademie Freiberg, Freiberg (Saxony)

10/2019 – 09/2022

- Focus areas: Artificial Intelligence, Distributed systems, Virtual reality

Bachelor of Science in Computer Engineering
Eritrean Institute of Technology, Mai-Nefhi

09/2008 – 07/2013

- Focus areas: Software Engineering, Networking, Embedded Systems

CONTINUING TRAINING

Full-Stack Web Development Certificate
CareerFoundry, Berlin (Remote)

12/2023 - 10/2024

- 900+ hours of intensive, project based web development training with best practices, under the guidance of experienced tutors and mentors
- Focus on JavaScript, HTML, CSS, Typescript, and frameworks/libraries such as React, Angular, Nodejs, Express, MongoDB and React Native for mobile application development
- Gained hands-on experience developing 6+ interactive and responsive web applications with implementation of UX/UI design

SELECTED WEB DEVELOPMENT PROJECTS

MeziFlix-app (Back-end) | *Source Code*

Nodejs | Express | MongoDB | Docker

- Crafted business logic for the server-side application, providing an API for easy storage and management of movies and user data.
- Implemented the RESTful API using Node.js, Express, MongoDB and integrated Passport for authentication and JWT for authorization.
- Tech-Stack: JavaScript, Nodejs, Express, MongoDB Atlas, mongosh, REST-API, JSON Insomnia, Git, GitHub, Docker

MeziFlix | *Web app* | *Source Code*

ReactJS | Bootstrap | SASS

- Developed a responsive ReactJs single page application that allows users to search and view movie info. Users can also create/edit/delete an account and add/remove movies to/from favorites
- Implemented the RESTful API provided by the "MeziFlix-app" backend App
- Tech-Stack: HTML, CSS, JavaScript, React, Bootstrap, Material, Git, GitHub, RESTful-API, Docker

Mezimeet App | *Website* | *Source Code*

ReactJS | Jest | Puppeteer | Jest

- crafted a PWA that allows users to discover events in cities around the world, view event details and filter events by city or number
- Developed applying TDD methodology, including unit, integration and end-to-end testing
- Implemented OAuth 2.0 with Google using AWS Lambda serverless function, Google Calendar API to retrieve upcoming events
- Tech-Stack: JavaScript, React, CSS, SASS, Jest, Puppeteer, Cucumber, Recharts

ADDITIONAL QUALIFICATION

Languages: German, fluent written and spoken (C1)
English, fluent written and spoken

Driver's license: European type B